

SEQUENCE PROTOCOL

<110> metaGen

<120> Detection of Differential Gene Expressions

<130> 21914PDE

<140> 100 04 102.7-41

<141> 2000-01-31

<160> 885

<170> PatentIn Ver. 2.1

<210> 1

<211> 459

<212> DNA

<213> Homo sapiens

<400> 1

```
naagcccttc atcgatttat agagcttttc agagtgatgg tttctcgagc agaaattgac 60
atgttgata tccgggcaca cttcaagaga ctctatggaa agtctctgta ctcgttcatc 120
aagggtgaca catctggaga ctacaggaaa gtactgcttg ttctctgtgg aggagatgat 180
taaaataaaa atcccagaag gacaggagga ttctcaacac tttgaatttt tttaacttca 240
tttttctaca ctgctattat cattatctca gaatgcttat ttccaattaa aacgcctaca 300
gctgcctcct aggaatatag actgtctgta ttattattca cctatnatta ggtccattat 360
ggatgcttta aagctgtact tggcatttcc aaagcntata aggttataat gggagggttt 420
naaagtagga nttaaatat tattccctgt tttttaaaa 459
```

<210> 2

<211> 352

<212> DNA

<213> Homo sapiens

<400> 2

```
catggcatgc agaggatcta caaaatgggt tcaccaggcc tgtctacaac gctgggtgga 60
tgaaaagcaa acaggaaaca gtacagccag agtggcatgt cctcagtga atgctgaata 120
cctaatagtt ttccaaaat tgggtccagt ggtttacgtc ttggatcttg cagatagact 180
gatctcaaaa gcctgtccat ttgctgcagc aggaataatg gtcggctcta tctattggac 240
agctgtgact tatggagcag tgacagtgat gcaggttgta ggtcataaag aagggtctgga 300
tgttatggag agagctgac ctttattcct ttttaatttg gacttcctac ta 352
```

<210> 3

<211> 360

<212> DNA

<213> Homo sapiens

<400> 3

```
ggcacgaggc atagggctcg gcgtgggttc acagggtggt tcttgggcaa gatgggcca 60
ccttcaagta ttctgggatc aagttcacgt gctttgaatt tgtattgttg caatttctcg 120
agctcctcag cctccagctc tgctgtactt ttgcaggta cagcccgtgc acggtgtttg 180
gtttgcagta caggagtctg tgggtctctg caaatcttgg tcacagaaga tttggagggt 240
aacaggttaa tatcatcctt cttgggtcct caaatgatat ctgttagggg ttcgtttatg 300
gaagtcttca acttgctgtg caagggtggc acatnatgta gaaactgttt cancaaagt 360
```

<210> 4

<211> 433

<212> DNA

<213> Homo sapiens

<400> 4

```
gactccttca cgtcaggctc aggttccatg ggaggacgaa gcagtggacg cattgtgggc 60
```

tttagggaca	gatgagtttt	ccagatagtg	tcagcttatt	tgaagattaa	ttttctttgt	120
taacttaaaa	taactatttt	aacccttgag	tggcttcttt	ttaaaccaaa	aaccgtcttt	180
ctttgctttt	ttatcacagc	agaatcagga	tctctttctc	attcaagggg	ggaaccaccc	240
cagggtcagc	gctgcgcctg	ctgtggccgc	cgcgagccac	gncctctggg	attcttttgg	300
taccgtcact	cttggcttgt	gccttcacaa	acttctcggt	tgcagatccc	tatgggggga	360
agcttgccct	aangttctct	ggaacttggt	cagaagcaag	cgcttggttn	gggtgtrtnc	420
ctggggccaa	ttt					433

<210> 5
 <211> 603
 <212> DNA
 <213> Homo sapiens

<400> 5						
aggacgacct	ccacttcata	naaaacgagt	agaagatgag	agtctggata	acacatggct	60
aaacaggact	gacaccatga	ttcagactcc	tggccccctg	ccagcaccac	aactcacatc	120
cactgtactg	cgggagaaca	gtcggcccat	gggagaccag	attcaagaac	ctgagtctga	180
acatggttct	gaaccagact	ttttacacaa	tcctcagatg	cagatctctt	ggttaggcca	240
gccgaagtta	gaagacttaa	atcggaaagga	cagaacagga	atgaactaca	tgaaaagtga	300
aactggagtg	aggcatgctg	ttcggggtct	aatggaggna	gatgctgagc	ccatctttga	360
agatgtgatg	atgtcatccc	gaagccagtt	agaagatatg	aatggaagaa	tttggaggac	420
accatgggtt	attgatctgc	ctcccatcaa	gaaatcggcg	agangagagc	tgagctaagg	480
cccagacttc	ctttgactct	gccanttatc	catnggagnt	ggattcangg	atttgggaat	540
gccctatggt	tcctgaagtn	ctgggaggaa	attttccaaa	cctnggacct	ctattaattt	600
tgg						603

<210> 6
 <211> 573
 <212> DNA
 <213> Homo sapiens

<400> 6						
gcgaacncgc	gagcctcgtc	agcctgcgca	gccccacaca	ggaggcccag	cccagagtga	60
gtccagaagc	ccccccagcg	gaggcgncag	agtaaaagag	caagcttttg	tgagataatc	120
gaagaacttt	tctcccccg	ttgtttgttg	gagtgggtgcc	aggtactgg	tttggagaac	180
ttgtctacaa	ccagggattg	attttaaaag	tgtctttttt	tattttactt	ttttttaagc	240
accaaatttt	gttgtttttt	ttttttctcc	cctccccaca	gatcccatct	caaatacttc	300
tgtaaacac	cattccaaca	ggtcgaggag	agcttaaaaca	ccttcttctc	ctgccttggt	360
tctcttttat	tttttatatt	ttcgcacag	tattaatggt	ttttgcatac	tttgcacatt	420
tattcaaaaag	tgtaaaacttt	ctttggtcna	atctatggga	catggcccat	atatggaagg	480
agatgggggtg	gggtcaaaaa	ggggatatca	aatgaaaagt	gatagggggc	cacaatgggg	540
gaaattgaag	tgggggnata	acatggccaa	aat			573

<210> 7
 <211> 487
 <212> DNA
 <213> Homo sapiens

<400> 7						
taagggtttc	tctactatgt	ccacttggtg	aaatgcggct	gacaattccg	tgctggggcc	60
ttacatgttc	tcactctacaa	tgttttgacg	caactcttta	cattcagatg	aatgagaaaa	120
aaccaacctg	ggtttgtcct	gtctgtgata	agaaggctcc	atatgaacac	cttattattg	180
atggcttggt	tatggaaatc	ctaaaagtact	gtacagactg	tgatgaaata	caatttaagg	240
aggatggcac	ttgggcaccg	atgagatcaa	aaaaggaagt	acaggaagtt	tctgcctctt	300
acaatggagt	cgatggatgc	ttgagctcca	cattggagca	tcaggtagcg	tctcaccacc	360
agtcctcaaa	taaaaacaag	aaagttagaag	tgattgacct	aaccatagac	agttcatctg	420
atgaagagga	agaagagcca	tctgccaaga	ggacctgtcc	ttccctatct	cccacatcna	480
ccactag						487

<210> 8
 <211> 168
 <212> DNA
 <213> Homo sapiens

<400> 8
 caaatattgtg ttgtatatat tcgtattcca tgtgttagat ggaagcattt cctatccagt 60
 gtgaataaaa agaacagttg tagtaaatca ttataaagcc gatgatattt catggcaggt 120
 tattctacca agctgtgctt gttggtnntt tcccatgact gtaatgct 168

<210> 9
 <211> 219
 <212> DNA
 <213> Homo sapiens

<400> 9
 agagagtggg tcaaagtaga agatgctatc aaagtctctc agtgtcataa acctgtacat 60
 gcagagtatc tggaaaagct aaagctgggt tgttccccag ccaatggaaa ttctacagtc 120
 ccttcccttc cggataataa tgcccttggtt gtaaccgctg cacagacctc tgggttgcca 180
 tctagtgtaa gatagagaga actgggtagg cctctccca 219

<210> 10
 <211> 227
 <212> DNA
 <213> Homo sapiens

<400> 10
 tttaagtgtg ttgcctgtga gtgtgacctc ggaggtcttt cctcaggagc tgaagtcagg 60
 atnagaaacc accaactgta ctgcaacgac tgctatctca gattcaaatc tggacggcca 120
 accgccatgt gatgtaagcc tcatacagaa agcactgttg cagatagaag aagaggtggg 180
 tgctgtcat gtagatcnat aaatatgtgt ngtagtctt tttngct 227

<210> 11
 <211> 621
 <212> DNA
 <213> Homo sapiens

<400> 11
 cagggaaaaa atatgttcga tnccctgggt aactgtctcc ttatctgcaa antgacatcc 60
 caacggattg catgcctctg gcctactgca aaagaatcat caacctgggg cctgtgcatc 120
 coggacctct gagtccagaa ccccaaccca tgggtgtcag gggtatctgt ggacattgca 180
 agaatacttt tctgtggaca gagttcacag accgcacttt ggcacgttgt cctcactgca 240
 ggaaagtgtc atctattggg cgcagatacc cacgtaagag atgtatctgc tgcttcttgc 300
 ttggcttgct tttggcagtc actgccactg gccttgccct tgnacatgga agcatgcacg 360
 gcgatattga ggcactctat cagcctgggc atttgtcatc ctgttggtct tgctgtgttt 420
 gggccgggct ctttaattgg gcctgtatga aggtccagcc aacctgggtc agaaattctc 480
 ctgaagcctg atgaccaca gancgggtgcc ttggccctc cctggtnngg ancagttaca 540
 ctacgaagga agctggggtg gttaaagggt ccggggcttn taagaagaag ccaagcaact 600
 tgcttccctt ccctggggaa a 621

<210> 12
 <211> 409
 <212> DNA
 <213> Homo sapiens

<400> 12
 cagacgctgc ccaaggcttt gtgggctgcg cactcagctc caccatccag cgcttctaca 60
 agaacgaggg aggtacatgg tcagtggaga aggtgatcca ggtgcccccc aagaaagtga 120
 agggctgggt gctgccgaaa tgccaggcct gatcaccgac atcctgctct ccctggacga 180
 ccgcttcttc tacttcagca actggctgca tggggacctg aggcagtatg acatctctga 240
 cccacagaga ccccgctca caggacagct ctctcctgga ggcagcattg ttaagggagg 300
 cnctgtgcaa gtgctgagga cgaggaacta aagtcccagc cagagccccct agtgggtcaag 360
 ggaaaacggg tggntggagg cctcagatga tccagtccag ctggatggg 409

<210> 13
 <211> 439
 <212> DNA
 <213> Homo sapiens

tttaagtgtg ttgcctgtga gtgtgacctc ggaggtcttt cctcaggagc tgaagtcagg 60

<400> 13
 ttccgggtgaaa ttgtaattttt tttatttggaa aacaaatata caacttggaa tggatttttga 60
 ggcaaatgtt gccataagca gatttttaagt ggctaaacaa agtttataaaa gcaagtaaca 120
 ataaaagaaa atgttttctgg tacaggacca gcagtacaaa aaaatagtgt acgagtacct 180
 ggataatata cccgtttttgc aatagtgc aa ctttttaagta catattgttg actgtccata 240
 gtccacgcag agttacaact ccacacttca acaacaacat gctgacagtt cctaaagaaa 300
 actactttta aaaaggcata acccagatgt tccctcattt gaccaactcc atctaagttt 360
 agatgtgcag aagggtcttag atatatccag agtaagccac atgcaacatg gttacttgat 420
 caatttttcta aaataaggt 439

<210> 14
 <211> 486
 <212> DNA
 <213> Homo sapiens

<400> 14
 gctaggaaga tagttgttac atactgaagt aggttatttaa ataaagtaat gaaatatctt 60
 tgaacatata tataaatagg acagggttat attctaacta gtttgccgtg ttttcagcta 120
 actctatcac acctaaccat ctgtggaaga cttgatgcat tttatatcat ttttaggctg 180
 ggctaggaaa caacaaaatc acagatatcg aaaatgggag tcttgctaac ataccacgtg 240
 tgagagaaat acatttggaa aacaataaac taaaaaaaat cccttcagga ttaccagagt 300
 tgaaatacct ccaggtaaaa cattctactt gtgttcagta gntattgggt atttttcctt 360
 caggtttttta ataacacact ttaggcacac ctcaagcaaa ggaccaagta aggcagcaag 420
 ggggtggattc aaacataatg actctccagg ttgcatgagg tgttttaaga agtaggagag 480
 ctttan 486

<210> 15
 <211> 601
 <212> DNA
 <213> Homo sapiens

<400> 15
 cgacaactgt gctgacaacc catgttcttg cagccagtct cactgttgta cagcatggctc 60
 agccatgggt gtcatgtccc tctttttgccc ttgtttatgg tgttaccttc cagccaaggg 120
 ttgccttaaa ttgtgccagg ggtgttatga ccgggttaac aggcctgggt gccgctgtaa 180
 aaactcaaac acagtttctt gcaaagttcc cactgtcccc cctaggaact ttgaaaaacc 240
 aacatagcat cattaatcag gaatattaca gtaatgagga ttttttctgt ctttttttaa 300
 tacacatatg caaccaacta aacagttata atcttggcac tgttaataga aagttgggat 360
 agtcttttct gtttgccgtg aaatgctttt tgtccatgtg ccgttttaac tggatatgct 420
 tgtagaact ccagctaatt gagctcaaag tatgagatac agaacttggg tganccatgt 480
 antgcataag ctaaagcaac acagacactc ctangcaaag tttttgggtg gtgaatagta 540
 ccttgcaaaa cttgtaaat agcagatgac ttttttccat gggtttcncc agagagaatg 600
 t 601

<210> 16
 <211> 511
 <212> DNA
 <213> Homo sapiens

<400> 16
 agaggatcgc caaggccgtg aacgagaagt cctgcaactg cctcctgctc aaagtcaacc 60
 agattggctc cgtgaccgag tctcttcagg cgtgcaagct ggcccaggcc aatgggtggg 120
 gcgtcatggt gtctcatcgt tcggggggaga ctgaagatac ctccatcgct gacctgggtg 180
 tggggctgtg cactgggcag atcaagactg gtgccccctg ccgatctgag cgcttgccca 240
 agtacaacca gtccttcaga attgaagagg agcngggcag caaggctaag tttgcccggca 300
 gaacttcaga aacccttggg ccaagtaagc tgtgggcagg caagccttcg gtcacctgtt 360
 ggctacacag acccctcccc tcgtgtcagt caggcagtcg aggccccgac caacacttnc 420
 aggggtcctg ctagtttagc cccaccgccc ttgagttcgt accgttctta gaatntacag 480
 aagccaantc cttggagcct gttgcantct a 511

<210> 17
 <211> 338
 <212> DNA
 <213> Homo sapiens

<400> 17
 caatgcttga agtataaaaa gctgagagtg ttctcgggca gggagtctcc agaaccagga 60
 gaagaagaat ttggacgctg gatgtttcat actactcaga tgataaaggc gtggcagggtg 120
 cagatgtaga gaagagaagg cgattgctag agagccttcg aggccagca cttgatgtta 180
 ttccgtgtcc tcaagataaa caatccttta attactgtcc gatgaatgtc tgcagggtct 240
 tgaggaggta tttgggggtta cagataatcc tagggagtgt caggtcaaat atctaaccac 300
 nttaccagaa ggatgaggaa aagttgtcgg cntatgtc 338

<210> 18
 <211> 245
 <212> DNA
 <213> Homo sapiens

<400> 18
 aggaaattaa cattttgata cccatgcatt ggttcaggac nttggaaact catggntttg 60
 acaaaacaca agcagaaaca attgtatcag cggttaactgc tttatcaaat gtcagcctgg 120
 atactatcta taaagagatg gtcactcaag ctcaacagga aataacagta caacagctaa 180
 tggctcattt ggatgctatc aggaaagaca tggctatcct agagaaaagt gnattttgcan 240
 atctg 245

<210> 19
 <211> 304
 <212> DNA
 <213> Homo sapiens

<400> 19
 gatcaaacaa agtctgatag tctatgcaag taaccagcca tgtattttgta acaactttctc 60
 ccacagtggc ttccacttca caccacagca gaggaaccac agcataatcc gcaacagttc 120
 tgctcagaag ggacatgatt ttcccagcat tttcntttta nnangtttgc gatgttagat 180
 tcattttcat tactaaaaac caaaacaagg aaactctttt ggctaaataa gcctttcttca 240
 gtaattgtng aaacatcagg ggacacaatg acttgacaga agactgggtt ttctttcttt 300
 ggca 304

<210> 20
 <211> 1558
 <212> DNA
 <213> Homo sapiens

<400> 20
 aggaggccgc ggcggngcag ggcggcgact gcctgcctgc ctgggttgcg gaagtgatag 60
 ccgcgcgaccg agcctgctgc tttcttgcta ctgcttcggc ttcccgccca cttcccccg 120
 acggtgaagg cggcccagct gtggatggct agatagccct tgtctccgc cgccaatctc 180
 tggcccttag cagcacggag cagacggcgg cagcagcagc agcaggcgag gaggaagatg 240
 ggcggacggc tgcggcctg tgtggtggac tgtggcacgg ggtatacaaa actaggatat 300
 gctggaaaata cagaaccaca gtttatcatc ccttcctgta ttgctattaa ggagtcagca 360
 aaagtgggtg atcaagctca aaggagggtg atgaaagggt tttgatgacc tagacttctt 420
 ccattgngtg atgaagcaat agaaaaacct acatattgca acaaagtgg cccaatccgc 480
 catgggtatag tntgaagatt gggactttta tggaaagggt tatggagcaa gtgatctttt 540
 aaatatttta ngggcagaac cctgaagacc attattttct tttgactgaa cctccattga 600
 atactccaga aaacagggaa tatactgctg aaataatgtt tgagtccttc aatgttccag 660
 gcttgatcat tgcgtgacg gctgttcttg ccttatctgc atcttgacc tcaagacaag 720
 taggagancg gacgttgacc ggtncggtta tagacagtgg agatggtgtc actcatgtca 780
 ttctgtggc tgaagggtat gtgattggca gctgtattaa acacattcca atcgcaggga 840
 ccgaagatat aacaatattt taattcaagc aacctgctga gagaccgag aagtagggaa 900
 tccctccaag aaccaaccct tggaaacctg ctaaggcagt aaaggagcgc tatagtattg 960
 tctgcccaga ttttagtaana gaatttaaca agtgcttttg gaactaagag ctagtatctt 1020
 ggattaaact atgcctgcta gtgctttctg attactcgca ttctgtttct tgccttaaaa 1080
 gaagagtaaa gacaagagtg ttggaccagt attgcagttc tgtagtgtca tttcttataa 1140
 aaaacnaaac aacaacaata atttatccaa attggcata ttaaagccta acattctaata 1200
 aaaggcacaa attttctttt aaatacttgt ttagcctct ttnatctctt tataagttaa 1260
 ctaataaatac tattttcttc agacttctgc aatagttctt taaaatcacc acagttagca 1320
 agctgacttt tgtaatgtgc tonaanacca anacttgtga acttttaata tgttgagtgc 1380
 tttcattttt ataactggat ctccatttga tattttcatt tgnataaact atttgcagtc 1440
 tggaaatttt ttttagtgcc agtccctgga catatcattg aaagttaatt ttctttgcat 1500

ttttaaataat ctggattatg gaggaagaat gatgnaaata aattaaaact gaattacc 1558

<210> 21
<211> 561
<212> DNA
<213> Homo sapiens

<400> 21
agccagggttt ccgagggtgct gagaagncan gaaactccgc agactactcc tcagagagca 60
aaaagcagaa aactgaagaa aaggaaattg cagctcggtt tgacagcgat ggtgagaaaa 120
gtgatgacaa cttgggtggtt gacgtttcca atgaggatcc atcttccccct cgagggagcc 180
cagcacattc cccagagag aatggcctag acaagacacg cctgctcaag aaagatgccc 240
cgattagtcc agcctctatt gcactctcca gcagtactcc ctcttccaaa tccaaagaac 300
ttagcccttaa tgaaaaatct actactcccg tctcaaagtc caataccccc tactccacga 360
actgatgcng ccacccccag gcagtaactc tantcccggg atttgaggcc ttgtanctgg 420
gaaaaccacc aggagtgtga ccttttgggc tcaagcctaa ggaccccaat gggaagtacc 480
tttgtccata tncaantcca tttggggatt gtgcccctgc tgggaatgaac ggggagctga 540
ncagccccgg ngcggggtac g 561

<210> 22
<211> 450
<212> DNA
<213> Homo sapiens

<400> 22
ccagagtttt acattacact tgtctgtctt ataattgata ttttaggatg tttgggtggt 60
tgttacaggc agaattggat agatacagcc ctacaaatgt atatgccctc cctgaaaaa 120
aattggatga aaatctgcac agcaaagtga aacacacaga taataggaac aaaatgtagt 180
tcccattgtc caaacaaaat aaatgaaatc tctgcatgtt tgcagcatat ctgccttttg 240
ggaatgtaat caaggtataa tctttggcta gtgttatgtg cctgtatttt tttaaaatgg 300
tacaccagaa aaggactggc agtctacttc taccatagtt aaacttcacc ctctttaatt 360
tcacaacata ttcttttgaa gcaggaagaa atgctcataa agaggatcag accttctttc 420
ccgtgaaacc agtatttggc gccatatata 450

<210> 23
<211> 476
<212> DNA
<213> Homo sapiens

<400> 23
cgtactgctt ccgatatggt atcgacatcc cgtatcttag ttgcagtagt gaagatgtgc 60
tatgaggcta aagaatggga tttacttaat gaaaatatta tgcttttgtc caaaaggcgg 120
agtcagttaa aacaagctgt tgccaaaatg gttcaacagt gctgtactta tgttgaggaa 180
atcacagacc ttccatcaa acttcgatta attgatactc tacgaatggg taccgaagca 240
agatttatgt tgaaattgag cgtgcgcgac tgactaaaac attagcaact ataaaagaac 300
aaaatgggtga tgtgaaagag gcagcctcca ttttacagga gttacagggt gaaacctacg 360
gggtcaatgga aaagaaagag cgagtgggaat ttatttttga gcaaagtagg ctctgcctag 420
ctgtgaagga ttacattcga acacaaatca tcagcaagaa aattaacacc caaatt 476

<210> 24
<211> 278
<212> DNA
<213> Homo sapiens

<400> 24
aattcggccc gagggctcctt ggtgcagatc cacgaaaaaa acggctggta cacaccccca 60
aaagaagacg gctaaccctg gagtatcacc ctctctccct cccagggcac cactggacca 120
attacctttg aatgctgtat ttggatctca cgctgcctct gtgggtccct ccctcatttt 180
tcctggacgt gatagctctg cctattgcag gacaatgatg gctattctaa acgctaagga 240
aaaaaaacaa acacaggact gtttnaaagt actcaaga 278

<210> 25
<211> 237

<212> DNA
<213> Homo sapiens

<400> 25
ggagtattgg agagggcgcc ttatgaggac caggggctcg gggagacgac tcoctttact 60
atcatctgcc agcccatgca gccnctgagg gtcaacagcc agcccgccc ccagaagcga 120
tgccctttttg tgtgtcgcca tgggtgagagg atggatgttg tgtttgggaa gtactggcct 180
gtcccagtgcc ntcgatngca aaggcgncta catncgcaag caacctngaa catngcc 237

<210> 26
<211> 620
<212> DNA
<213> Homo sapiens

<400> 26
aattcggcat gagggggcac agagccatct tcttcaatcg gatcgggtgga gtgcagcagg 60
acactatcct ggccgagggc tntcaacttca ggatcccttg gttccagtag cccattatct 120
atgacattcg ggccagacct cgaaaaatct cctccctac aggctccaaa gacctacaga 180
tgggtgaatat ctccctgcga gtgtttgtctc gacccaatgc tcaggagcct cctagcatgt 240
accagcgcct agggctggac tacgaggaac gagtgttgcc gtccattgtc aacgaggtgc 300
tcaagagtgt ggtggccaag ttcaatgcct cacagctgat caccagcgg gccaggtat 360
ccctgttgat ccgcccggag ctgacagaga gggccaagga cttcagcctc atcctggatg 420
atgtggccat cacagagctg agctttancc gagagtacac agctgctgta gaagccaaac 480
aagtggccca ncaggaggcc agccganatt tcttggtaga aaaancaaan aggaacagcg 540
gcagaaantg tcaggccgag gtgagcgagc tgcaagatgc ttgagaacat ganaagaacc 600
tggctacata actngcaaga 620

<210> 27
<211> 421
<212> DNA
<213> Homo sapiens

<400> 27
aacgaaaaga atgggaatga cagtaacaaa caagatttcc ccaactggata ttgcgatggg 60
actgcagcag tcttatcttt gaaattcaga aaggaaacaa ctctgttcca aacagctaaa 120
tatgcaagtc caaaaaatga aggtatgttt aactgccaca ttcactcgaa gccattcat 180
ctccttcagc atcccaatga agtacacgat ctgcttagct aaataagggtg gcacacgcgc 240
tgcaccgctg acatcacagg acagttgcct ataaaactag acttctgacc gcagggctcc 300
agcttcactt tctcacaggc catcatcctc atctnngggag agcagtcgtc tggagcaacc 360
tctaaaatca tgctcgtagt tgtgtctggc aaagctgggg tccatgacca cntccagggt 420
n 421

<210> 28
<211> 426
<212> DNA
<213> Homo sapiens

<400> 28
ttcgattgtg gcccatgcaa gcaaggagta atggaacaaa acgaccagca atgttagata 60
atgaagccga cgnaataaaa caatgattga gctcagtgat aatgaaaacc cttggacaat 120
attcctggaa acagttgacg ccgagctggc tgctagtggg gcgaccttac ccaagtttga 180
taaagatcat gatgtaatgt tatttttgaa gatgtatgat cccaaaacgc ggactttgaa 240
ttactgtggg catatctaca caccaatatc ctgtaaaata cgtgacttgc tcccagttat 300
gtgtgacaga gcaggattta ttcaagatac tagcctttat cctctatgga ggaagttaaa 360
ccgaatttaa cagagagaat tccaggacta tgacgtgtct ccttgataaa gccctttagt 420
gaacta 426

<210> 29
<211> 558
<212> DNA
<213> Homo sapiens

<400> 29
gagtgnngncg gnggtggcgc ctgcggacct aactagctcc aggttaggcc gagctttngn 60

ggaaaagcagc	ggacttgaaa	atactggaaa	tctgtccgga	tccaaattat	tttgcaagcc	120
agatgagtaa	ccagagggca	tgaaggttg	agaacatttg	acttccctgc	aaaccttgg	180
atagatcact	tccttttctg	taggaaagga	aaggcaccac	agagcacaat	gagtacaaga	240
aagcgtcgtg	gtggagcaat	aaattctaga	caagctcaga	agcgaactcg	ggaagcaacc	300
tcaccccccg	agatctcctt	ggaagcagaa	cccatagaac	tcgtggaaac	tgctggagat	360
gaaattgtgg	acctcacttg	tgaatcttta	gagcctgtgg	tggttgatct	gactcacaat	420
gactctgttg	tgattgttga	cgaagaaga	agaccaagga	ggaatgctag	gaggctgccc	480
caggaccatg	ctgacagctg	tgtggtgagc	agtgcagatg	aggagtctgc	cagggacaga	540
gacgtatatg	tgactacc					558

<210> 30
 <211> 477
 <212> DNA
 <213> Homo sapiens

<400> 30						
ccagtgttct	agttacatta	atgagaacag	aaacataaac	tatgacctag	gggtttctgt	60
tgatagctt	gtaattaaga	acggagaaag	aacaacaaag	acatattttc	cagttttttt	120
tttctttact	taaactctga	aaacaacaga	aactttgtct	tcctactctt	acattctaaa	180
ccgatgaaat	ctttaacaga	ttacacttta	aatatctact	catcattttc	tctctcagag	240
tcctagcttg	agttgcactg	catgtatctt	gtgcactctg	ttctcttcct	ttaatgctgt	300
actgtttctg	tgagctctga	gggactatct	tgagagatgt	aatggaagga	aagcgtgggtg	360
ttaatctgcg	tactgcttaa	gacagtantt	ccataatcaa	tgatgggttc	atagagaaac	420
taagtcttat	gaacctgacc	tccttttatgg	ctaatacgac	taagcaagaa	tngaggg	477

<210> 31
 <211> 550
 <212> DNA
 <213> Homo sapiens

<400> 31						
tcagactctc	ctcgttcgcg	cagtcagctc	ggctccttcc	agcaaccatg	tctgacaaac	60
ccgatatggc	tgagatcgag	aaattcgata	agtcgaagtt	gaagaaaaca	gaaacgcaag	120
agaaaaatcc	tctgccttca	aaagaaacaa	ttgaacaaga	gaagcaagct	ggcgaatcgt	180
aatgagggcga	gcgcgcgaat	atgcactgta	cattccacga	gcattgcctt	cttattttac	240
ttctttttagc	tgtttaactt	tgtaagatgc	aaagaggttg	gatcaagttt	aaatcgactg	300
tgctgcccct	ttcacatcaa	agaatcagaa	ctactgagca	ggaaggcctc	ccctgcctct	360
cccacccatc	tgatgggtctg	gctagcagag	agggaaaaga	acttgcatgt	tggtgaagga	420
aaaagctggg	tgggagatga	tgaatngaga	ggaaaatttc	aagatgggtc	aagatgtcct	480
ggcaggatgt	aaatggcagt	tttaatcaga	gtggcatttt	ttttttggtt	caaacaattt	540
taattattgg						550

<210> 32
 <211> 623
 <212> DNA
 <213> Homo sapiens

<400> 32						
ggcagtagca	gaacacctgc	tctcatgaac	ttcatgatga	caggctcttg	ggtgacaatt	60
ggtgcgacct	ttgcagccat	gattggagct	ggaatgcttg	tacactcaat	atcatatgag	120
caganccagg	cccaaagcat	ctggcttgga	tgctgcattc	tggtgtgatg	ggtgcagttg	180
tggtcctctc	gacgatctta	ggggggcctc	ttctcctgag	agccgcatgg	tacaccgctg	240
gtattgtggg	aggcctctct	actgtggcca	tgtgtgcgcc	tagtgagaag	tttctcgaac	300
atgggagcac	ccctgggagt	gggcctgggt	cttgtctttt	gcgtcttctc	tggggtctat	360
gtttcttccc	cctacctctg	tgggctgggtg	cactctgtac	tcagtggcaa	tgtatgggtg	420
attagttctt	ttcagcatgt	tccttctgta	tgatactcag	aaagtaatca	aacgtgcaga	480
aataacaccc	atgtatggag	ctccaaagta	tgatcccatc	aatttctgat	ttganatcta	540
catngataca	attaatatat	ttatgcgagt	tgcantaatg	ctagcaactt	gaagcaacag	600
aaagaatgaa	gtaccgcttt	tta				623

<210> 33
 <211> 464
 <212> DNA
 <213> Homo sapiens

<400> 33
tattccaagc acacttttcca gtatgcttac cttgtttacga cttatctcct ctcataaacg 60
gatgtctaga aattaattat gtttaagttta atttaatttg aggaggggtga cgggcgggtg 120
gtgcggtactt cattgctcaa ttcaatttaag ctctctattc ttaattttact actaaatcct 180
ccttagtcct ttagtttcat aaagggtata gtaatgttct tttataagaa aatgtagccc 240
atttcttccc atttcattgg ctacaccttg acctaacgtt tttatgtttg attccttttg 300
ttactttaat accttttttag gggttgctga agatggcggg atataggctg aattagcaag 360
agatgggtgag gtagagcggg gtttatccga ttatagaaca ggctcctcta gatggatata 420
aagtaccgcc aagtccttg aagtttttaag cnatggctag tagt 464

<210> 34
<211> 308
<212> DNA
<213> Homo sapiens

<400> 34
ccgcgagacg tcgggtgaggt gggactgggtg actctcagaa gctcctcggt gcacttttgt 60
ctcggcagac tgggagggag caggcgctcg cggaanaccg tcacttactg ggtttgttca 120
cctgtttcca gcaagttttg gtcttttggg cagaagcctg ttgaccaact gtgggccacc 180
acagtcttgc acagaaaggt ggcaccogga gtgggtttgtg gccctcacta ccaaagccac 240
gggaagccca atttccagta ggattgcccg ttttgaattc ttttcccaaa agcnaaatng 300
agtttnac 308

<210> 35
<211> 435
<212> DNA
<213> Homo sapiens

<400> 35
aaaaagccat taatattcaa acaaaggaat cacattttta aaacctata cataagaaac 60
agcctocagg aacattcaag cagcagtcag gagggaaaaa tgtttcaata gccagttttt 120
cttcaaagta tgccagagaa tacaatccaa ttcactgcta caattcatag aatngtcag 180
tgttttcttg agacgctgag gtacactgtt ggcagtttcc aagtggccgc atgtgctgct 240
cagaaaggcc agcgnagacn agctgcccgg aagaactttc actgctggaa aactgctccg 300
ctcccaagga aagcccaagg aaggctgggc cgtgggctca caacttcac ctttctccag 360
ggctcatccag ctccacgtca cttgaggtca atgtcgtcnt ccacagggaa gctcaccatc 420
ctttgcccac ccagg 435

<210> 36
<211> 505
<212> DNA
<213> Homo sapiens

<400> 36
ccggcaacgt acaccttttt tattaagggg cttctattgt gttctgaagt tccatctctg 60
tgacaacatt aatatacttt aaatacctgg gatgtggtct ggtacatata tgggtgatgc 120
tgtgtgtgta ttatatatac tactatatta tgaacacctg agtcatggaa gtccttgcaa 180
agtgtgcctt aaaatcctca acctttttta cttttctcat acatcgaagt cagtattctt 240
atgaaggccc ccatattgaa aaaagtcacc ttgtcctgag aggttgtagc catcatcatt 300
ttccagcggc tgccatcttt tattctggga acgttttctg gggtcactga catcattact 360
ttgtactaag ttttctcgt tgcttaaaaag gctgctctgt agcaacaact gtctcatccc 420
ttcaaagctt ttccaagcag tttagctatt tgaaaagggg gcttttctaac ttcactcttt 480
caaaaataaac tgctgggcac gcggt 505

<210> 37
<211> 451
<212> DNA
<213> Homo sapiens

<400> 37
tntttttgac tttaaatgat aaacttttat tctgaatata ctgttttttg acaagattta 60
acacaacatt ttctgggatt ataaatatat tataacagta ttatacaaat ttttacaata 120
tgttttttatc aggttaggta attttcacaa aagtgtcaag agaacaaaat aaaggggaga 180
aaagatctat tgttcacaaa agccagttgg ctttttgcac gaatgcacac cattttaata 240

```

aaagtattcc taaaagcatg atccgacact catacaaac aacaaaaaag acagctttac 300
taggtcacat tataaactca actggcatct acacaagaca gtatcccatt agtttcagtg 360
gaatttgaga taacttgrgt gaactagaaa taaggtagat gaagagttgt ccaattcttc 420
naaaatctgg aatttttttt cacactccaa n 451

```

```

<210> 38
<211> 245
<212> DNA
<213> Homo sapiens

```

```

<400> 38
gatttgccgt cttgtaccct taagagctac agctagagaa accttcacgg ggtggagaga 60
ggattctaag gcttttctag cgtgaccctt ttcagtagtg ctagtccctt ttttacttga 120
tcttaattggc aagaaggcca caaaggtagt tttccttttt tagctcagga aatatgtcag 180
gctcaaacca cttctcagggc agtttaattg acactagtcc attgttacat gaagtgatag 240
atagc 245

```

```

<210> 39
<211> 403
<212> DNA
<213> Homo sapiens

```

```

<400> 39
aattcaaaagg taaatacact gagtaaagag ctacattcag agttctcaga agttatgaat 60
gaaatctggg ctagtgatca aatcagaagt gccgtcctta tctcatcaaa gccagggtgc 120
tttattgcag gtgctgatat caacatgtta gccgcttgca agacccttca agaagtaaca 180
cagctatcac aagaagcaca gagaatagtt gagaaacttg aaaagtccac aaagcctatt 240
gtggctgcca tcaatggatc ctgctgggga ggaggacttg aggttgccat ttcattgccc 300
tacagaatag caacaaaaga cagaaaaaca gtattaggta ccctgaagtt ttgctggggg 360
ccttaccagg agcaggaggc acacaaaagg ctgccccaaa tgg 403

```

```

<210> 40
<211> 527
<212> DNA
<213> Homo sapiens

```

```

<400> 40
ggacaatgac ggccctccagt gtccctcctgc acactggaca gaagatgcct ctgattgggtc 60
tggggacatg gaagagttag cctgggcagg tgaaagcagc cattaaacat gcccttagcg 120
caggctaccg ccacattgat tgtgcttctg tatatggcaa tgaaactgag attggggagg 180
cctgaagga gagtgtgggg tcaggcaagg cagtcctctg agaggagctg tttgtgacat 240
ccaagctgtg gaataactaag caccaccctg aggatgtaga acctgccctc cggaagacac 300
tggctgatct gcaactggag tatttggacc tctatttgat gcaactggcc ttaatgcctt 360
tgaagccggg gagacaatcc ccttttccca agaaatgccg aatggggaact gtcagatatg 420
actccaactc actattaaag agacctggaa ggctcttgga agtactggtg gcnaaagggg 480
ctggtgaaag ccttgggcnt tgtccaactt tcaacagtcg gcaagat 527

```

```

<210> 41
<211> 449
<212> DNA
<213> Homo sapiens

```

```

<400> 41
cataattcag aacagcacac tgggagaagc agagattgag cgtngggng agtaatcctg 60
agagagatgc aggaagttag aaccaacttg caagaagtgt tttttgatta tcttcattgc 120
acanctatca aaatactgca cttggacgga caattctggg accaactgaa aatatcaaat 180
ctataaatcg taaggacctg gtggattaca taaccacaca ctacaaggga ccaagaattg 240
tactggctgc cgccggaggt gtttgccata acgaactgct ggagttagca aagttccatt 300
ttggtgactc tttgtgctca cacaaaggga gctataccag ctctgcctcc ctggcaagtt 360
cactggaagt gaagattcgg ggtgaaggga tgaccaggat gcccnttggg gaaccttggc 420
aataactggt ttganccaat ttggttggg 449

```

```

<210> 42

```

<211> 411
<212> DNA
<213> Homo sapiens

<400> 42
tcttcctggc caatgcgtct cggggcgcgct cagagcagtt catcaacctg cgagaggtca 60
gcacccgctt cgccttgcca cccggggagt atgtggtggt gccctccacc ttcgagccca 120
acaaggaggg cgacgttcgt gctgcgcttc attotcagag aagagtgctg ggactgtgga 180
gctggatgac cagatccagg ccaatctccc cgatgagcaa gtgctctcag aagaggagat 240
tgacgagaac ttcaaggccc tcttcaggca gctggcaggg gaggacatgg agatcagcgt 300
gaaggagtbt cggacaatcc tcaataggat catcagcaaa cacaaagacc tgcggaccaa 360
gggcttcagc taagagtctg gccgcagcat ggggtgaacct catggatcgt t 411

<210> 43
<211> 455
<212> DNA
<213> Homo sapiens

<400> 43
ttctcattaa caactccac ggtgggaaga cagtttatca cttagtctta tacttttggga 60
cagctcactt ctgcacaatt gagatacatt tgaagagtag tctgtttgca atctgtcata 120
ttttaatcca caaacaagga gaactcccta aattgaactt gtctaaatcc agctttcctc 180
aacctccttc ctaagactta gacaaattag tcattgagag catctcctga ttaaatgttc 240
ctagaaagca gagccatcaa cagagctggt gtcacctgaa caagaatggg aggttcctaaa 300
gggaataactt tgcagcttca tgcaaaagtct aactcaggag ggaacaggcc tccctcctgg 360
ctgaagagat gctccttatc ctggacagca atcagctggc tctccttaag aaatgggtgg 420
gtcaaagggc nacatgagct catgaaatgt tcagt 455

<210> 44
<211> 312
<212> DNA
<213> Homo sapiens

<400> 44
ctcacntgta gnagatatgg agcggagaga cgttgacttt gagcttatca aagtagaagg 60
caaagtgggc ggcaggctgg aggacactaa actgattaag ggcgtgattg tggacaagga 120
tttcagtcac ccacagatgc caaaaaaagt ggaagatgcg aagattgcaa ttctcacatg 180
tccatttgaa ccacccaaac caaaaaacaaa gcataagctg gatgtgacct ctgtcgaaga 240
ttataaagcc cttcagaaat accgaaaagg agaaatttga agagatgatt caacaaatta 300
aagagactgg tt 312

<210> 45
<211> 600
<212> DNA
<213> Homo sapiens

<400> 45
tccggagcgc acgtcggcag tccgctccct cgttgaccga atcaccgacc tctctcccca 60
gctgtatttc caaaatgtcg ctttctaaca agctgacgct ggacaagctg gacgttaaaag 120
ggaagcgggt cgttatgaga gtcgacttca atgttcctat gaagaacaac cagataacaa 180
acaaccagag gattaaggct gctgtcccaa gcatcaaat ctgcttggaac aatggagcca 240
agtccgtagt ccttatgagc cacctaggcc ggcctgatgg tctgcccatt cctgacaagt 300
actccttaga gccagttgct gtagaactca aatctctgct gggcaaggat gttctgttct 360
tgaaggactg ttagggccca gaagtggaga aagcctgtgc caaccagct gctgggtctg 420
tcatcctgct ggagaacctc cgttttcatg tggaggaaga agggaaagga aaagatgctt 480
ctgggaacaa ggttaaagcc gagccagcca aaatagaagc tttccgagct tcactttcca 540
agctagggga tgtctatgtc aatgatgctt ttgcactgtc acagagccac agctccatgg 600

<210> 46
<211> 598
<212> DNA
<213> Homo sapiens

<400> 46

ttatgccaaa	aatggagaac	tacttaaata	tattcgcaaa	atcggttcat	tcgatgagac	60
ctgtacccga	ttttacacgg	ctgagattgt	gtctgcttta	gagtacttgc	acggcaaggg	120
catcattcan	agggacctta	aaccggaaaa	cattttgtta	aatgaagata	tgcacatcca	180
gatcacagat	tttggaacag	caaaagtctt	atccccagag	agcaaaacaag	ccagggccaa	240
ctcattcgtg	ggaacagcgc	agtacgtttc	tccagagctg	ctcacggaga	agtccgcctg	300
taagagttca	gacctttggg	ctcttggatg	cataatatac	cagcttgggg	caggactccc	360
accattccga	gctggaaacg	agtatcttat	atttcagaag	atcattaagt	tgggaatatga	420
ctttccagaa	aaattcttcc	ctaaggcaag	agacctcgtg	gagaaacttt	tgggttttaga	480
tgccacanag	cggttaggct	gtgaggaaat	ggnaggatac	ggacctctta	aagcacnccc	540
gtnccttcgag	tccgtcacgt	gggaganctg	caccagcgac	gcctccgaag	ctcaccgt	598

<210> 47
 <211> 485
 <212> DNA
 <213> Homo sapiens

<400> 47	aaattcagaa	aggagtattt	gaggtgaaat	ccacaaatgg	ggataccttc	ttaggtgggg	60
	aagactttga	ccaggccttg	ctacggcaca	ttgtgaagga	gttcaagaga	gagacagggg	120
	ttgatttgac	taaagacaac	atgggcacttc	agagggtacg	ggaagctgct	gaaaaggcta	180
	aatgtgaact	ctcctcatct	gtgcagactg	acatcaattt	gccctatctt	acaatggatt	240
	cttctggacc	caagcatttg	aatatgaagt	tgaccnngtg	ctcaatttga	agggattgtc	300
	actgatctaa	tcagaaggac	tatcgctcca	tgccaaaaag	ctatgcaaga	tgcagaagtc	360
	agcaagagtg	acataggaga	agtgattctt	gtgggtggca	tgactaggat	gcccgaaggtt	420
	cagcagactg	tacaggatct	ttttggcaga	ccccaagtaa	agctgtcaat	cctgatgang	480
	ctgng						485

<210> 48
 <211> 293
 <212> DNA
 <213> Homo sapiens

<400> 48	aaagaaatga	attgcagcag	actattaata	aattaaccaa	ggaccctgga	agctgaacaa	60
	cagaagttgt	ggaatgagga	gttaaaatat	gccagagnan	ngaagcgatt	gaaacacaa	120
	tagcagagta	tcacaaattg	gctagaaaaa	taaaacttat	tccttaaagg	tgctgagaat	180
	tccaaaggtt	atgactttga	aattaagttt	aatccccgag	gctggtgcaa	cttgcttgt	240
	caaatcacag	gcncaaagntt	tatgtacccc	cttaagggaac	ncccgaaatgg	aaa	293

<210> 49
 <211> 632
 <212> DNA
 <213> Homo sapiens

<400> 49	ggcacagaat	caaaagtctt	tgtgggaatt	ttaaataata	aacttgaaat	gtatccacca	60
	ctcaatcaaa	cgttatctca	agaagtagtg	aacacacagc	ttgcttttga	acgtcagaaa	120
	actgcagaga	aagagcgatt	atctcttgta	tatgctaagc	agtgggtggag	agaatatattg	180
	caaattcgac	cctcacacaa	ctcacgactg	gttaagattt	ttgcacagga	tgaaaatggg	240
	ataaatagac	cagctctgtt	ctatgttaaa	ccacttcgag	ctggacggct	tcttgatact	300
	ccaaggcaag	cagcaagatt	tgttaatgtc	cttggttatg	aacgagcccc	tgttatttga	360
	ggaggaggta	aacaggagca	gtgggtgcact	ctgctggcct	ttctctgtag	aaacaagggt	420
	gactgtgaag	atcacgctaa	ccttctgtgc	agccttcttc	ttggatatcg	attagaagcc	480
	tttgtttgtg	ttgggaccaa	ggcaaaagga	gtacctcatg	catgggttat	gacttgttga	540
	actgatgggg	gcataccttt	tgggagagtt	tanaggaccc	agtaacctcc	taaacctacn	600
	aatcccgatg	aacctccant	gctgaacagn	cc			632

<210> 50
 <211> 582
 <212> DNA
 <213> Homo sapiens

<400> 50	ccaagccatc	caaaatcccc	aagcccccca	agccccctaa	gcccccaagg	ccccccaaaa	60
----------	------------	------------	------------	------------	------------	------------	----

cgctgaagct	caaagatgga	ggcaagaaga	aagggaagaa	gtcccgggag	tcagcctcac	120
ccaccatccc	caacctggac	ctgctcgaag	cccacaccaa	ggagggcactg	accaagatgg	180
agcgcgccc	gaagggcaag	gccacaaaaga	gtgtcctgag	tgtgcccac	aaagatgtgg	240
ttcacatgca	gaatgatgtg	gagaggctgg	aaattcgaga	gcaaaccaag	agcaagtcag	300
aggccaagtg	gaagtacaag	aacagcaaac	ctgactcctt	actgaagatg	gaagaggagc	360
agaagctaga	gaagtcgcct	ctagctggaa	acaaagacaa	taagttctct	ttttctttct	420
ccaacaagaa	actcctcggc	tccaaggctc	tcaggccccc	gacgagccct	ggtgtgttcg	480
gggccttgca	gaacttcaag	gaggacaagc	ccaagctcgt	gcgggatgag	tatgagtacg	540
tgtcggatga	cgggtgagctt	cagatcgacg	agtttcccat	cc		582

<210> 51
 <211> 523
 <212> DNA
 <213> Homo sapiens

<400> 51						
ggtgagctgc	gacgtgactg	gctagctgcg	tgggtactgg	aacaagcaaa	cgaggcagcg	60
agcgaaggac	gggagccgga	ccctggggccc	cgtggaactc	cagcctgcgc	caccacgtca	120
cgcacacgct	cggcgctgcg	atccgcgcac	ataacgatat	ttggatttga	cctgcatttt	180
ggaatttatc	tacacttaaa	atgccaccag	cagttggagg	tccagttgga	tacaccccc	240
cagatggagg	ctggggctgg	gcagtggtaa	ttggagcttt	catttccatc	ggcttctctt	300
atgcattttc	caaatcaatt	actgtcttct	tcaaagagat	tgaaggtata	ttccatgcca	360
ccaccagcga	agtgtcatgg	aatatcctcc	ataatgttgg	ctgtcatgta	tgggtggagg	420
cctatcagca	gtatcctggg	gaataaatat	ggaagtcgta	tagtcatgat	tgttgggtgg	480
tgtttgtcag	gctgtggcct	gaattgcagc	ttccttctgt	aan		523

<210> 52
 <211> 348
 <212> DNA
 <213> Homo sapiens

<400> 52						
gcangcgcaa	ntaccggcgc	tcgccaagga	ccctggaagc	taccgttacc	ccgcccgcag	60
cgtgggcnca	tgagcagctc	gggactgaat	tcggagaagg	tagctgctct	gatacagaaa	120
ctgaattccg	acccccagtt	cgtacttgcc	cagaatgtcg	ggaccaccca	cgacctgctg	180
gacatctgtc	tgaagcgggc	cacgggtgcg	cgcgcgana	tgggtgttcca	gcacgccgtg	240
ccccaggagg	gaaagccaat	caccaaccag	aagagctcag	ggcgatgctg	gatcttttct	300
tgtctgaatg	ttatgaggct	tccattcatg	aaaaagttaa	atattgaa		348

<210> 53
 <211> 355
 <212> DNA
 <213> Homo sapiens

<400> 53						
ggcggcgncg	gcggcgtant	angnagggtg	cacagagaac	acccttagca	tgaacagtgt	60
gaggattcca	ccagcttttt	caccatgaag	gagacagacc	gggagccggt	gcgacanagg	120
tgcaaaagg	tgctgggatg	ctccagcgcc	cggaccagct	ggacaagggt	gagcagtatc	180
gcaggagaga	agcgcggaag	aaggcctccg	tggacangaa	tttgaagaga	gcggatctga	240
aagctcaggt	gcccagattct	gtcctgtggg	tcagccgtcc	tggggccaag	ttgtgggtgt	300
ggctgaacag	caggaactcc	cccgccccc	agccagttga	agttcctgac	cgttc	355

<210> 54
 <211> 330
 <212> DNA
 <213> Homo sapiens

<400> 54						
aacnatgcng	ttttctcctt	ctacacactt	ggcgctcatg	tctggagctg	cagaggaggt	60
ggccactgga	gcagaggtgg	tggatctgct	ggtggccatg	tgtagggcag	cttttagagt	120
ccctagaaa	agcatcatct	ttgagcctta	tcctctctgt	gtggacccca	ctgatcccaa	180
gactctggcc	tttaacccta	agaagaagaa	ttatgaagcg	gcttcagaaa	gctctgggat	240
agtgtgatgt	ctattccggg	agatgaccca	gggctcataa	tttggaatc	aagaaacaga	300
tggacaaaagt	ttggatcccc	ctgggccc				330

<210> 55
<211> 451
<212> DNA
<213> Homo sapiens

<400> 55
tcngacagaa aagctgtacg ttatatgttg gaaatctttc tttttacaca actgaagaac 60
aaatctatga actcttcagc aaaagtgggtg acataaagaa aatcattatg ggtctggata 120
aaatgaagaa aacagcatgt ggattctgtt ttgtggaata ttactcacgc gcagatgcgg 180
aaaacgccat gcggtacata aatgggacgc gtctggatga ccgaatcatt cgcacagact 240
gggacgcagg cttaaaggag ggcaggcaat acggcogtgg ngaatctggg ggccagggtt 300
cgggatgaag tatccggcag gactaccgat gctgggaaga ggaggctaag gggaaaactg 360
gcacagaacc agtgagtggg tgagagctct gtcagtgcac aacactcctt tggcctgttt 420
gaatttgctg aagaacatca cctaaagtcg g 451

<210> 56
<211> 355
<212> DNA
<213> Homo sapiens

<400> 56
ggatgtggag tgatgggaac ggttcacata ctgactgtgg atctcaagta taccattgaa 60
aaccacaaggc actttgtgga ctacacaccac cagaagcctg ttaatgctat catcgagcat 120
gtgcgggacg gcagtgtggg cagggccctg ctctcccag attactacct gggtacagtc 180
atgctgtcag gcataaagtg cccaactttt cgacgggaag cagatggcag tgaaaactcca 240
gagccttttg ctgcagaagc caaatttttc actgagtgcg gactgcttca gagagatgtt 300
cagatcattc tggagagctg ccacaaccag aacattctgg gtaccatcct tcac 355

<210> 57
<211> 468
<212> DNA
<213> Homo sapiens

<400> 57
ttgttctgga ttcccgtcgt aacttaaagg gaaattttca caatgtccgg agcccttgat 60
gtcctgcaaaa tgaaggaggga ggatgtcctt aagttccttg cagcaggaac ccacttaggt 120
ggcaccaatc ttgacttoca gatggaacag tacatctata aaaggaaaag tgatggcatc 180
tatatcataa atctcaagag gacctgggag aagcttctgc tggcagctcg tgcaattgtt 240
gccattgaaa accctgctga tgtcagtgtt atatcctcca ggaatactgg ccagaggggt 300
gtgctgaagt ttgctgctgc cactggagcc actccaattg ctggccgctt cactcctgga 360
acccttacta accagatcca ggcagccttc cgggagccac ggcttcttgt gggtactgac 420
ccagggctga ccacagctct caaggggcat cttatgttac ctacctac 468

<210> 58
<211> 394
<212> DNA
<213> Homo sapiens

<400> 58
acagtgtgcc ttcagccoga ggactcggac tcggtcaga ctccggttct ttgtttcctg 60
gaaggtggca cggggactca ggcggccagg gtcgagggcc aggtccaagg tcacagagct 120
ttggaggtca cctgtaggcg gtcgcaggga cggcgttgag acaggaactc cttgggtgga 180
caatgagcag ggtgggagac aggggcctgg gatgggggac tccagaggtc aggtgtcct 240
gggttggagg ggaggggact caccgctccc aagcagggtt ttagaacgtt tgtcaatgta 300
aaggcagatg ttggactgta ccagggtctg ctacagagac acctgctccc gacactcaaa 360
cgcagacctg gggatctcgg caggtatgaa ctgc 394

<210> 59
<211> 296
<212> DNA
<213> Homo sapiens

<400> 59
gccaggcgta ctgacaggtg gaccagcgga ctggtggaga tggcgacgct ctctctgacc 60

gtgaattcag	gagaccctcc	gctaggagct	ttgctggcag	tagaacacgt	gaaagacgat	120
gtcagcattt	cogttgaaga	agggaaagag	aatattcttc	atgtttctga	aaatgtgata	180
ttcacagatg	tgaattctat	acttcgctac	ttggctagag	ttgcaactac	agctggggta	240
tatggctcta	atctgatgga	ccatacttta	gattgatcac	ttggttggtg	ggttta	296

<210> 60
 <211> 426
 <212> DNA
 <213> Homo sapiens

<400> 60						
cgggactccc	gggaagtgga	ccggcagaag	agggggctag	ctagctagtc	tgtgctggacc	60
agggagaccc	ccgcgcccc	ccggtgtgag	gcgccctcac	agggccgggt	gggctggcga	120
gcgacgcgcg	cgcaggaggc	tgtgaggagt	gtgtggaaca	ggaccgggga	cagaggaacc	180
atggctccgc	agaacctgag	caccttttgc	ctgttgctgc	tatacctcat	cggggcggtg	240
attgcccggac	gagattttcta	taagatctta	ggggtgcctc	gaagtgcctc	tataaaggat	300
attaaaaagg	cctataggaa	actagccctg	cagcttcctc	ccgaccggaa	ccctgatgat	360
ccacaagccc	aggagaaatt	ccaggatctg	ggtgctgctt	atgaggttct	gtcagatagt	420
gagaac						426

<210> 61
 <211> 461
 <212> DNA
 <213> Homo sapiens

<400> 61						
cgcttcttgt	acaagggcga	ggggctgaac	aagatcagcc	atcggggact	acctggggga	60
gaggggaagaa	ctgaacctgg	cagtgtctca	tgcttttgtg	gatctgcatg	agttcaccga	120
cctcaatctg	gtgcaggccc	tcaggcagtt	tctatggagc	tttcgcctac	ccggagaggc	180
ccagaaaatt	gaccgggatga	tggaggcctt	cgcccagcga	tactgcctgt	gcaaccctgg	240
ggttttccag	tccacagaca	cgtgctatgt	gctgtccttc	gccgtcatca	tgctcaacac	300
cagtctccac	aatcccaatg	tcggggacaa	gccgggcctg	gagcgctttg	tgggccatgaa	360
cgggggcctc	aacgagggcg	gggacctgcc	tgaggagctg	ctcaggaacc	tgtacgacag	420
catccgaaat	gagcccttca	agattcctga	ggatgacggg	a		461

<210> 62
 <211> 422
 <212> DNA
 <213> Homo sapiens

<400> 62						
atcaacaagg	agatgctaaa	ggttggaaa	cagaaagcct	tgggtcaagga	tacagagctg	60
gacttgcatg	ggtatttaga	gatgctgaag	aactgccctt	tgatgatgac	aagtttgata	120
tttacaccat	tgcttttggg	atccggaaatg	tcacacacat	tgatcaggca	ctccagggaag	180
ctcatcgggg	gctgaaacca	ggaggacggg	ttctctgtct	ggaatttagc	caagtgaaca	240
atccctcat	atccaggctt	tatgatctat	atagcttcca	ggtcattcct	gtcctgggag	300
aggtcatcgc	tgagagactg	aagcctatca	gtaccttgta	gagagtatcc	gaagtttccg	360
tctcaggaag	agttcaagga	catgatagaa	gatgcaggct	ttcacaaggt	gacttacgaa	420
ag						422

<210> 63
 <211> 280
 <212> DNA
 <213> Homo sapiens

<400> 63						
agaagttagag	cagaagaaga	agcggacctt	ccgcaagtcc	acctaccgcg	gcgtggacct	60
cgaccagctg	ctggacatgt	cctacgagca	gctgatgcag	ctgtacagtg	cgcgccaggc	120
ggcggctgaa	ccggggcctg	cggcggaagc	agcactccct	gctgaagcgc	ctgcgcaagg	180
ccaagaagga	ggcgccgccc	atggagaagc	cggaagtggg	gaagacgcac	cttcgggaca	240
tgatcatcct	acctgagatg	gtgggcagca	tgggtggcgt			280

<210> 64

<211> 408
<212> DNA
<213> Homo sapiens

<400> 64
ctgggagatg aaacagagga agaagaaaca aagcccattg agctccctgt caaagaggaa 60
gaaccccctg aaaaaactgt tgatgtggca gcagagaaga aagtgggtgaa aattacatct 120
gaaataccac agactgagag aatgcagaag agggctgaac gattcantgt acctntgagc 180
ttggagagta agaaaagctgc tcgggcagct aggtttggga tttcttcagt tccaacaaaa 240
ggtctgtcat ctgataacaa acctatgggt aacttgggat aagctgaagg aaagagctcc 300
aaagatttgg tttgaatgtc tcttcaatct ccagaaagtc ttgaagatga tgaggaaact 360
gaaaaagagg gaaggagcga tttggggatt gtcacaagtt cagctgga 408

<210> 65
<211> 463
<212> DNA
<213> Homo sapiens

<400> 65
agccgctggg gcgaggacgg cgcgaggctg ctgctgctgc ccccgggccg cgcggctgga 60
aacggagagg ccgagccaaag cggcgggccc tcttatgctg ggaggatgct ggagagtagc 120
ggctgcaaaag gctgaaggag ggctgctgctg agaagcgcag acnggggtgt tgcagctctg 180
gaagaaaaaag tgttgcatcc tcaccgagga agggctgctg cttatcccgc ccaagcagct 240
gcaacaccag cagcagcagc aacagcagca gcagcagcag caacaacagc ccgggcaggg 300
gccggccgag ccgtcccaac ccagtggccc cgctgtcgcc agcctcgagc cgccggtcaa 360
gotcaaggaa ctgcacttct ccaacatgaa gaccgtggac tgtgtggagc gcaagggcaa 420
gtacatgtac ttcactgtgg tgatggcaga gggcaaggag atc 463

<210> 66
<211> 512
<212> DNA
<213> Homo sapiens

<400> 66
cgcgccaagg gacgtgtttc tgcgtcgcg tggatcatgga ggctgagcaa agatgacatc 60
cgacaactcc ggaccacggc cgccaccgaa gctgcttctg ctgccgctac tgctgttctt 120
gctgccgggt ggagctgtgc agggctggga gacagaggag agggcccga ctcgcgaaga 180
ggagtgccac ttctacgagg gtggacaagt gtacccggga gaggcattccc gggtatcggg 240
cgccgaccac tccctgcacc taagcaaagc gaagatttcc aagccagcgc cctactggga 300
aggaacagct gtgatcgatg gagaatttaa ggagctgaag ttaactgatt atcgtgggaa 360
atacttgggt ttcttcttct acccacttga tttcacattt gtgtgtccaa ctgaaattat 420
cgcttttggc gacagacttg aagaattcag atctataaat actgaagtgg tagcatgctc 480
tgttgattca cagtttacct atttggctgg ga 512

<210> 67
<211> 367
<212> DNA
<213> Homo sapiens

<400> 67
ggagagcaac attaggatct acagcgagag gccccctcct ggctgagcaa agatgacatc 60
cgaagaatgc gactcttggc ggacagcgca gtggncaggg ctccggcctg tgtcctctag 120
gagcggagcc gtttgcgtgt gctggagggg ggcgcaactg gcgctgtgct ccgctgtggc 180
cctagccccc gtgggcttct caagcagccc ttggacatga gtgaggtgtt tgccttccac 240
ctagacagga tcctggggct caacaggacc ctgccgtctg tgagcaggaa agcagagttc 300
atccaagatg gccgnccatg ccccatcatt ctttgggatg catctttatc ttcagcaagt 360
aatgaca 367

<210> 68
<211> 402
<212> DNA
<213> Homo sapiens

<400> 68

tgcagatgta	gatacctgaaa	accagaactt	tttacttgaa	tgaatttgg	ggaagaagaa	60
gtatgaaaca	gaatttcac	cagggtactac	ttcctttgga	atgtcagtat	ttaatctgag	120
caatgcgatt	gtgggcagtg	gaatccttgg	gctttcttat	gccatggcta	atactggaat	180
tgtctctttt	ataattctct	tgacatttgt	gtcaatat	tccctgtatt	ctgttcac	240
ccttttgaag	actgccaatg	aaggagggtc	tttattatat	gaacaattgg	gatataaggc	300
atttggatta	gttggaaagc	ttgcagcatc	tggatcaatt	acaatgcaga	acattggagc	360
tatgtcaagc	tacctcttca	tagtgaaata	tgagttgcct	tt		402

<210> 69
 <211> 545
 <212> DNA
 <213> Homo sapiens

<400> 69						
gcggcgctg	gcacgttnnca	gggctgaagc	ggcgcgcg	gtgggggnc	cacgtagccc	60
ggcgctcg	atggctctcc	tgggtgctcg	tctggtgagc	tgtacctct	ttctggcagt	120
gaatggctc	tattcctcta	gtgatgatgt	gatcgaatta	actccatcaa	atttcaaccg	180
agaagttatt	cagagtgata	gtttgtggct	tgtagaattc	tatgctccat	gggtgtgtca	240
ctgtcaaaga	ttaacaccag	aatggaagaa	agcagcaact	gcattaaaag	atgttgtcaa	300
agttggtgca	gttgatgcag	ataagcatca	ttccctagga	ggtcagtatg	gtgttcaggg	360
atttccctacc	attaagattt	ttggatccaa	caaaaacaga	ccagaagatt	accaaggtgg	420
cagaactggg	gaagccattg	tagatgctgc	gctgagtgct	ctgcccant	cgtgaaggat	480
cgtcggggg	acgaagcgga	ggatacagtt	ctggaaaaca	aggcagaagt	gatagttcaa	540
gtaag						545

<210> 70
 <211> 359
 <212> DNA
 <213> Homo sapiens

<400> 70						
gcctactgca	ccgcgcgacca	caacgtgagc	cccaacatct	tgcctgggt	ctacagggag	60
atcaatgatg	acctgtccta	ccagatggac	tgccacgccc	tgnagtgcga	gagcaagctc	120
gaggccaaga	aactggccca	cgccatgatg	gaggccttca	ggaagacttt	ccacagtatg	180
aagagcgacg	ggcggtatcca	cagcaacagc	tcctccgaag	aggtttccca	ggaattggaa	240
tccgatgatg	gctgaatgaa	ctttnagacg	cttnagcaaa	ggcagcattg	gtcacgggg	300
tcaaggggaat	tagattgagt	aagcaacggt	tcaaatttgg	gatgaaagat	ttccaaatt	359

<210> 71
 <211> 392
 <212> DNA
 <213> Homo sapiens

<400> 71						
ctatgtngca	attccaagac	caagtcagta	gtattacagc	tggctgatgg	ccagatattt	60
aagtaccttt	gggagtcacc	ttctctggct	attaaaccat	ggatgaactc	tgggtggattt	120
cctgttcggg	ttccttatcc	atgcacccag	accgaattgg	ccatgattgg	agaagaggaa	180
tgtntccttg	gtctgactga	cagggtgtcgc	tttttcatca	atgacattga	ggttgcgtca	240
aatatcacgt	catttgcagt	atatgatgag	tttttattgt	tgacaaccca	ttcccatacc	300
tgccantggt	tttgccgtgag	ggatgcttca	tttaaaacat	tacaggccgg	cctgagcagc	360
aattcatgtg	tcccatgggg	aagtttctgc	gg			392

<210> 72
 <211> 344
 <212> DNA
 <213> Homo sapiens

<400> 72						
gagttcacag	accgcacttt	ggcacgttgt	cctcactgca	ggaaagtgtc	atctattggg	60
cgcagatacc	cacgtaagan	atgtatctnc	tgcttcttgc	ttggcttgc	tttggcagtc	120
actgccactg	gccttgnctt	tggcacatgg	aagcatgcac	ggcgatatgg	aggcatctat	180
gcagcctggg	catttntcat	cctgttggct	gtgctgtgtt	tgggcccggc	tctttattgg	240
gcctgtatga	aggtcagcca	cctgtccag	aacttctcct	gagcctgatg	accacagac	300
tgtgctgggn	ccctccctgg	tggggacagt	gacactacga	aggg		344

<210> 73
<211> 311
<212> DNA
<213> Homo sapiens

<400> 73
gtgggatggg gtgcccttca tcctgcgctg cggcaaggcc ctgaacgagc gcaaggccga 60
ggtaggctg cagttccatg atgtggccgg cgacatcttc caccagcagt gcaaggcga 120
cgagctggtn atccgctggc agcccaacga ggccgtgtac accaagatga tgaccaagaa 180
gccgggcatg ttcttcaacc ccgaggagtc ggagctggac ctgacctacg gcaacagata 240
caagaacgtg aagctccctg acgcctatga gcgcctcatc ctggacgtct tctgcgggac 300
cagatgcact t 311

<210> 74
<211> 176
<212> DNA
<213> Homo sapiens

<400> 74
ctgttccttg gaaatgtttg atgctactct gaaagatcga gaactgagct ttcagtcggc 60
tccaggtact accatgtttc tgcattggct agtgggaatg gtatatgtnt tctacttttg 120
ctccttcatt ctactactga gagaggtact tngacctggg gtctctgtgt ttctaa 176

<210> 75
<211> 276
<212> DNA
<213> Homo sapiens

<400> 75
ccaagattgg ttccagcgcc agtacctgtc aactccagat agtcagtctc tgcgctgtga 60
cctcattcgc tacatctgtg gggtagtcca nctttctaag gaagtactga gttcagatat 120
cttgccccgg tgggccatca ttggttggtc cctgacaacg tgcacgtcaa atgtcgctgc 180
ctccaatgcc aagctgggct tgttttatga ctggctgttc tttagtcagg acaaggatag 240
cattatgaac atagaaccag ccacccctgt catgca 276

<210> 76
<211> 310
<212> DNA
<213> Homo sapiens

<400> 76
acaccctcct gtgcaatggg tattggcttg cctggctgat tcatgtggga gagtccctgt 60
atgccatagt attgtgcaag cataaaggca tcacaagtgg tcgggctcag ctactctggt 120
tcctacagac tttcttcttt gggatagcgt ctctcaccat cttgattgct taaaaacgga 180
agcgccaaaa acaaaactga agttgtctga aagcttgctc tacactttta cattcatcct 240
cacccttttt tttgtggggg agaggagggt gcagtanttt actcagtgat ctttctactt 300
tctagaaact 310

<210> 77
<211> 295
<212> DNA
<213> Homo sapiens

<400> 77
cctcactgct atggggccga acaagaagaa gaagcgagat ggtgacgacc ggccggccgag 60
gctcgttctt agcttcgacg aggagaagag gcgggagtag ctgacaggct tccacaagcg 120
gaaggtcgag cgaaagaagg cagccattga ggagattaag cagcggctga aagaggagca 180
gaggaagctt cgggaggagc gccaccagga atacttgaag atgctggcag agagagaaga 240
ggctctngag gaggcagatg agctggaccg gttgggtgaca gcaaagacgg agtcg 295

<210> 78
<211> 406
<212> DNA
<213> Homo sapiens

<400> 78
caaaaaagctg gtngcctcca gacccgactt tttcaaccag gagcaccaga cacgggatgt 60
ggactgtgtc ctcacaacag gagaagtttt caggttgctg gnggnagagg gggctcgggg 120
ggctaacttg agcacgtgtt ccggcacgcg gcccagagagc tctttggaat ccatgtggct 180
gaggttaoct acaaacccct gaggaacaaa gacttccagg aggtgacact ngagaaggag 240
ggccagggtg tgctgcactt cgcaatggcg tacggcttcc gcaacatcca gaacctgggt 300
cagaggctca aacgagggcg ctgcccctac cactacgtgn aggtcatggc ctgcccctca 360
ggctgcctga acggcggggg gccagctcca ggtcccagac aaggcc 406

<210> 79
<211> 288
<212> DNA
<213> Homo sapiens

<400> 79
aagaaggaga ggaaggagaa gagacggcag agganggggg aagagtgcag cctgcctggc 60
ctcacttgct tcacgcatga caacaaccac tggcagacag ccccgttntg gaacctggga 120
tctttctgtg cttgcacgag ttctaacaat aacacctact ggtgtttgcn tacagttaat 180
gagacgcata atttnttttt ctgtgagttt gctactggct ttttggagta ttngatatg 240
aatacagatc cttatcagct cacaatatca gtgcacacg ttagaacg 288

<210> 80
<211> 322
<212> DNA
<213> Homo sapiens

<400> 80
aaacagcagc tgggtggttaa caagtggatc gtcattgttca gtagtttata cattatgtga 60
gaagtaacgt tctgattctt tttcttacac agaattggca gagggggctg atttgggagg 120
aaaggtgttg ctataaactt tgttactgaa gaagacaaga ggattcttcg tgacattgag 180
actttctaca atactacagt ggaggagatg cccatgaatg tggctgacct tatttaattc 240
ctgggatgag agttttggat gcagtgtctg ctggttgcga ataggcgatc acaacgtgca 300
ttgtgcttct ttcttttggg ga 322

<210> 81
<211> 361
<212> DNA
<213> Homo sapiens

<400> 81
attctctaaa atgcttaatg cctttgaaat tttgtaatca aaaaaaagct ttgaaaaaat 60
ctaaagggga gagtattctt taaagttttt aacataagct tgtcaatgca catgtagatg 120
gttagcatgt ttagcaaaccc ttgtgaaatt ataataagtt tgtagttaca tgtgaaactc 180
taaattgcag gcaactgtta atgtcataac agtttagtta ttttgttctg ttctgtcatg 240
tgccacaaaa tatgtacttt ttccactttt ttccctttgt atatcagtta cgggttacaa 300
ctggttcatt ctgaaaacaa caacaacaaa agtccattca tattttttta ccattgtata 360
g 361

<210> 82
<211> 206
<212> DNA
<213> Homo sapiens

<400> 82
tttttttttt tagtagttgc aacttcagca catctttatt agaactcttt catttgtgggt 60
aaacagccac aaaaataaat gctgacttag aaagtataaa cgcaaatatt taaacaaaaa 120
tgtttgcagc attcatagcg caaattgtac ctgaactgga aagccgaatt ctgcagatat 180
ccatcacact ggcggccgct cgagca 206

<210> 83
<211> 563
<212> DNA
<213> Homo sapiens

<400> 83
catcagctct cttcgttgct gtgggaacac tggccagagg tgtaccactg cgaggcgact 60
gtttatacat gaaagcatcc atgatgaggt tgtaaacaga cttaaaaagg cctatgcaca 120
gatccgagtt gggaaacccat gggaccctaa tgttctctat gggccactcc acaccaagca 180
ggcagtgagc atgtttcttg gagcagtgga agaagcaaaag aaagaagggtg gcacagtggg 240
ctatggggggc aagggttatgg atcgccctgg aaattatgta gaaccgacaa ttgtgacagg 300
tcttggccac gatgcgtcca ttgcacacac agagactttt gctccgattc tctatgtctt 360
taaattcaag aatgaagaag aggtctttgc atggaataat gaagtaaaac agggactttc 420
aagtagcatc tttaccaaag atctgggcag aatctttcgc tggcttgagc ctaaaggatc 480
agactgtggc attgtaaatg tcaacattcc aacaagtggg gctgagattg gaggtgcctt 540
tggaggagaa aagcacactg gtg 563

<210> 84
<211> 450
<212> DNA
<213> Homo sapiens

<400> 84
atcttggtgtg ttcattgaaca cgctaaatgg ctttggtaaat ggggtgtgggtt caaagcctga 60
tgcttcaaga totctgggtt gaatttggtc acaaccagga agtattgccc ctttttctgt 120
ctgggtcctc aataggaact tttcatacca gccataaaca atccagatgg ctgccacgtg 180
gtccttaccac gtgagaggcg tcacacagca cacactgcat gaatggggat gaaatcattc 240
ctgaattaat atagggttat attacttggc cctcagccat ttgagcctca gtgtctgcat 300
catatgtgtt tagtatatgg acatctaact gaaattatta acgtggcaat ttatgcgtgc 360
cttttttgga aatattctat tttaatggaa agaattatgt agaaatactg gatacatttt 420
taaaaaacatc cataattcac catcttgaca 450

<210> 85
<211> 320
<212> DNA
<213> Homo sapiens

<400> 85
ccattagtgt tcacactcag acatTTTTTgc ccagctctaa ggtaacttca tctatagctg 60
ctcagactga tgcatttatg gacacctgtt tccagtcagg tgggggtctcc agagaaaactc 120
aaaccagtgg gatagaaaag ccaacggatg accatgtaca gatggaccaa gctggaatgt 180
gcgagacat ttttgagagt gttcattcat catataatgt tgctacaggt aacattataa 240
gcaacagttt agtagcagag acagtaactc atagtttgtt acctcagaat gagcctaaga 300
ctttaaatca agatattgag 320

<210> 86
<211> 524
<212> DNA
<213> Homo sapiens

<400> 86
aatteggcac aggggtgggtc tttgagtttc agtgagtttg ctgaaatgtc gaagaagtag 60
ttccaaaactt caatgttcaa tgaaaattttt gttcaagttt gaaatggaga gagcagctat 120
aaaagggtact aagcctttta caaattgggtg agtactggca catgagatct agagcaggag 180
caactttctca cacatagtaa gtgggaaaag aaagtgcctt gaaagtccct ccctcaccta 240
cacagtatgc gtcattgtcg gacctgccag agagagacac attctcaagt gaatcctggc 300
ttcttgggaag cgcttgccca gacgagacac agtgcataaa aacaactttt gggggacagg 360
tatgttttct tgcagctgcg gttgtaagggt cttggcaaga caagcagtggt ggccagaatt 420
ttgaacttct gatgaatgtg taatgcaaaag gaccttgtac atttttttgt ttcaaggctc 480
tcaaaatgag cacatgaaga ggttgctgtg aaactttaag tggc 524

<210> 87
<211> 439
<212> DNA
<213> Homo sapiens

<400> 87
ctctgggccc ctctcttggg tctgtgctgc agtctggcgg ctgctgatcg ccacaccgtc 60
ttctggaaca gttcaaactc caagtccggg aatgaggact acaccatata tgtgcagctg 120

aatgactacg	tggacatcat	ctgtccgcac	tatgaagatc	actctgtggc	agacgctgcc	180
atggagcagt	acatactgta	cctgggtggag	catgaggagt	accagctgtg	ccagccccag	240
tccaaggacc	aagtccgctg	gcagtgcac	cggcccagtg	ccaagcatgg	ccgggagaag	300
ctgtctgaga	agttccagcg	cttcacacct	ttcacacctg	gcaaggagtt	caaagaagga	360
cacagctact	actacatctc	caaaccatc	caccagcatg	aagaccgctg	cttgagggtg	420
aaggtaactg	tcagtggca					439

<210> 88
 <211> 376
 <212> DNA
 <213> Homo sapiens

<400> 88						
tgaattgaag	gagctgcaaa	aaacctttga	aatctccatt	gggagaaaaag	atgaggtgat	60
ttctagcttg	tctcatgcca	taggaagcaa	aaggaaaaga	tagagttgat	gagaacattc	120
ttccactggc	gaatcggcca	tgtcagagcc	agacaggatg	tttatgaagg	taaactagct	180
gaccagtact	accagagaac	tttactgaag	aaagtctgga	aagtctggcg	ttccgtagtg	240
caaaagcagt	ggaaaagatt	ggtagaaaaga	gcttgtcaag	caagagctga	agaagtttgt	300
atccagattt	ccaatgatta	tgaagccaaa	gttgctatgt	tatctggagc	tttggaaaaat	360
gcaaaagctg	agattc					376

<210> 89
 <211> 341
 <212> DNA
 <213> Homo sapiens

<400> 89						
gtgagaacag	gtcctacgag	ggcactctgt	acaagaaggg	ggccttcatg	aagccttggg	60
agggccgctg	gttcgtgctg	gacaagacca	agcaccagct	gcgctactac	gaccacgctg	120
tggacacaga	gtgcaagggt	gtcatcgact	tggcggagggt	ggaggctgtg	gcacctggca	180
cgcccactat	gggtgccccct	aagactgttg	acgagaaggc	cttctttgac	gtgaagacaa	240
cgcgctcgctt	tacaacttct	gtgcccagga	cgtgccccctg	gcccagcagt	gggtggaccg	300
gatccagagc	tgctgtcg	acgcctgagc	ctcccagccc	t		341

<210> 90
 <211> 394
 <212> DNA
 <213> Homo sapiens

<400> 90						
cttggcgtta	ccagttatta	cccaagatgg	agattggacc	agtatcatct	tcaagatttg	60
gtcactatta	tgatgcata	aaaagaatgc	cacaagaact	aattgaggct	tcaaattggc	120
atggattttt	tcttcagag	aaaatatctt	caactctcaa	agtagaacc	tggtctttga	180
cccctggcta	cacaaagctg	cttcagttta	tccagaacat	catttatgag	gaaggatttg	240
atggatccaa	tcttcagaaa	aaacagagaa	acatttttaag	aataggaatt	cagaatcttg	300
gtcacctttt	atggggagac	gatatttgct	gtgagaaaat	ggtggcaaca	gtcacagcct	360
taccaagttc	ctctatgttc	tccgtggtct	tctg			394

<210> 91
 <211> 153
 <212> DNA
 <213> Homo sapiens

<400> 91						
acccatggga	tgagtgtttt	attcatgctg	tttccaggaa	gggatgtcaa	agctggacca	60
gtcgaaaacc	ttggaggctt	tttttgagc	tggccacagg	ggtgttgag	gcctgcttat	120
gggtcctcga	tgctcgagaa	ctcctgcttg	ggg			153

<210> 92
 <211> 479
 <212> DNA
 <213> Homo sapiens

<400> 92

cattgggcct	ctagatgcat	gctcgagcgg	ccgccagtgt	gatggatata	tgcagaattc	60
ggcttagcgt	ggtcgcggcc	gaggtacatt	cttgtagaac	cgggttcggt	tttccagttt	120
tgtagaaaaa	tagatgttcc	agccaccatt	tacttaactg	tctaataattt	aagaccaatc	180
aatatgttcc	ctggaaagat	gaaaaagtct	catgactaac	tcgttttttt	aaaaattctt	240
taaaacaaaa	agtgtgtgtg	tgtgtgtgtg	tgtgtttact	ctcaaagcac	agcatttcca	300
cagcagcagc	caacatgggg	tttagtagct	tcactcacc	ctaactaaag	ctttgaataa	360
accagtgtatt	tactacaaaa	aacactgtcc	ttgaaagaaa	ngacngcagt	catacatgaa	420
cgtgaaaactt	ggaatgatca	ggtcctaaac	atggcactta	aaaagttact	tatcaaaaac	479

<210> 93
 <211> 560
 <212> DNA
 <213> Homo sapiens

<400> 93						
tttttttttgc	cagtgccagg	ataaaaagca	aaatttttaa	ttggaaaatg	tctagcactt	60
tacacagtgg	aatgaaagaa	tacgaaattc	aaaaacatta	ttaaaagtcc	atatgccgca	120
gcagcacgcg	ccatgatgag	agctcccctt	ccgaggcgct	tctggagcag	cttccctcaac	180
ctgtccggga	gacgggctca	gaagagcagg	gccccatgc	tgccaacctc	gttttgctcc	240
ttaacgaaga	tctcaaagta	ctggtagatg	attgtgactg	cgagcaggat	cccggttcca	300
gacccaatgg	cgctaggaa	gtcagccagg	accgagaggg	ccccgatgca	cagcccacca	360
aaggccgcgg	ctgtggggat	gtaccggttg	agttcatgga	ccatggaggt	ctctcggtgg	420
cctctcatca	ccatctgctg	ctccttcage	tgttttgcaa	catctttggc	agaggaaacct	480
gagacctcaa	tccacgtttt	ggagaagaat	gcacaggagc	ccagcatgaa	cactatgtat	540
acaactgcat	ggaacgggtc					560

<210> 94
 <211> 396
 <212> DNA
 <213> Homo sapiens

<400> 94						
gacctctttac	cttactgatg	ctggcaaata	acaaatacag	atggtaatat	actctggaat	60
agttctctcat	ttggttcctc	tgctcagcca	ccaggaagtt	aaagttcaga	ctgctgcact	120
tagagctgtg	ggcaacattg	ttactggaac	tgatgggcaa	acacaagtag	ttttgaactg	180
tgatgctctt	tcacacttcc	cagcactcct	gacacatccc	aaagagaaaa	ttaataaaga	240
agcagtgtgg	ttcctctcca	acatcactgc	aggaaatcag	cagcaggtac	aggcagtaat	300
tgatgccaat	cttgtacca	tgataataca	ccttttggat	aagggggatt	ttggcccaag	360
cagcttctttt	ttgagtgcc	agtcgacgcg	gccgga			396

<210> 95
 <211> 622
 <212> DNA
 <213> Homo sapiens

<400> 95						
atggagagtc	acttaataat	aaattttctc	tatagtaggt	aaatccgatg	aaaggcagct	60
gattttccaac	aaaagcttta	ggaattggga	agggtttctac	atctcctttg	tcatcttcaa	120
tgtcatcgaa	attgctgctg	tctatgtcac	tgctgagttc	aggtactaca	ggagctgccg	180
ttttctcttat	gttatcccaa	tgccactgat	cattctttaa	gaaaggatgc	tgtctgattt	240
cttccacccc	atttctccca	agtcgtacct	ccttatctgt	taagaaagca	cagatgagat	300
tctttgcatg	tttggaatt	tctgcatctt	cagggaaaca	cagtgaattc	ttatgatcca	360
taatttttgc	atatgttctt	acaagtgaat	ccgcataaaa	tgagatattc	cccactagca	420
tctcataaaag	gaaaacacct	acagaccacc	aatcacattc	tcgcccatag	aaaccatcac	480
ccccttggtga	tttcagaacc	tcaggtgata	tataatccgg	tgttccaact	gctgtatcac	540
aatgtaccat	gcctgtttca	tccatcttca	tacaggtgcc	aaaatctgct	aatttttagat	600
ggtcatgttt	atcacagagc	at				622

<210> 96
 <211> 445
 <212> DNA
 <213> Homo sapiens

<400> 96

ggaagggatg	gaaaaaagga	aaagcaatag	aaactgtcca	attcacatca	gttatccgtc	60
tgctttttct	tgagagcttg	tggaagggtg	taacgtggct	gggaacatca	acaccttggc	120
atgcatgaat	gttaagtcag	gaaggccagc	gatcaccttg	atagcttctt	cacttaggtg	180
ctcttctctt	ttcgggtttc	tggtagatgt	gcttgtcttc	tctactgtag	acatgagtct	240
tgcaaatgca	tcagtcactt	tgaggcttga	ggtggagatt	tcagcttag	aagttgttaa	300
ctcatacaac	tcgggatcca	caccatctaa	agggttagta	aggccactgc	tactccagtc	360
aaactggacg	ggtggtagag	actcctggaa	ctgatcagat	gtacatgtgt	tcataatctgg	420
tgacatgggtg	gctgtctgac	cgatg				445

<210> 97
 <211> 541
 <212> DNA
 <213> Homo sapiens

<400> 97						
cttctttctc	tttatacttg	agcccccttc	tctcaggtac	tagcgtagag	ggttaaccca	60
cagatcatcc	ttgataatct	cagcaatcct	gtcagcctct	gggaggtatg	gtttgagaac	120
cagctgaaaa	agctgtggct	cgcacctctg	ttcccgtgac	gacggcctgg	ggttcctggc	180
cccggtgcca	gcggtattgg	gttgagttag	acaccagccg	gcctgagcgg	ttgcgctgga	240
actccttgac	aatcaccatg	tttgtgaagt	aggggttagt	ctggaagtac	agcttcattt	300
tgtagcccat	ggagatatgt	ctgagatcct	gtacctgcag	aatgggtcaa	gtagcggaaa	360
aatgtcttgc	tcacgtcggg	tgatcaaaat	tggaaattctg	gggtgggttta	ggaactgatg	420
agtggagtgc	tttgaccag	aagcctggga	tatgccggat	gatgaggtct	ctgcgctcca	480
ggaagggctc	tcgcatctgg	atgaacttgc	gcttgagacg	catgaaggct	ttgctgcctt	540
g						541

<210> 98
 <211> 384
 <212> DNA
 <213> Homo sapiens

<400> 98						
atttgaccg	gcattgcaggc	aacttctttt	gttggtacat	acctgtatta	ggaaaattac	60
acccatttta	cagaaaaatc	ccaaaaacata	tactgcaata	agctcaaaac	aatgtgaaaa	120
agaccagtgt	gaatggcaca	caaaaatcgc	ctctttataa	attaactgga	attcatgatc	180
atgaaagttag	cacagggaaa	tcagtccttc	agggctttgc	tctctggaag	aacaccttta	240
agtaattttt	aaaaaacttta	gcattcaggct	gctgaagcgc	ttgacaaaac	tcctgaatta	300
ttttcggagc	tacttgcaag	gagggcagggt	attcttgttg	aagatactga	acacattctg	360
ggccccgttt	gagatgaatt	gttt				384

<210> 99
 <211> 535
 <212> DNA
 <213> Homo sapiens

<400> 99						
ttttaattta	caaaaggtag	gctccgttta	ttagagtccac	acacaactga	ctatctcagt	60
gtgactcaag	accacaaaaa	acccatttct	ccttcacttc	tgagtccctg	ggttaataacc	120
tagaccagca	agtgtactgc	ttgggggtcca	ttcacagggt	tacaagtgtt	tcattgagtg	180
caatctgtga	ctgtgtgagg	ttggccagggt	aggtcacccat	caaaagggtca	ttgatgttgc	240
tgttgagcat	gggtctcaaa	tcattcgggaa	ctattttcgg	tacttggtta	accagggtca	300
tcaggaagcg	gcccacagta	ttgtcagctg	acacctttcc	agacagtaca	tcctctgcat	360
attgcaacac	tgtactcagg	gcattcctgga	tgcgagctga	tgccccctcc	acttgctgca	420
agtcacttga	gagtcgaatc	actctgttgg	ggctaaaagca	ggctcttcag	atcagggtcaa	480
ctccgatgcg	ttcagtgctg	tagtacgcgt	atttcactgt	cagaggggtg	aacat	535

<210> 100
 <211> 452
 <212> DNA
 <213> Homo sapiens

<400> 100						
tgtatctttg	atgaggttag	ttttgggtatt	acagcaaaatt	ttttttcttc	tgacaaaatct	60
gtgctgtgtt	tatattaact	aaatctttta	aaatacgaat	cctgagctag	agtaaaaaaca	120

acaattttga	ctaaagaata	aatcccttca	ttgttaaacc	taaacagctt	taaaattcag	180
ccatggaaca	taagataaga	ctggaattca	aactttctgat	gtccatggca	aacctgaata	240
ctctcagcag	aaataaaaaca	cacatagtag	ataatacaca	atagtaaaaa	gcatacagaaa	300
ttgatgcacc	tggattttgt	taaatacaac	aaaggtcact	cagtccctca	tggataaacc	360
tagctgggag	aatagcactg	aacagtgtat	tgcattgagc	agaaatccct	cagaaaggca	420
acactggatt	catttttaga	caggcataga	ct			452

<210> 101
 <211> 447
 <212> DNA
 <213> Homo sapiens

<400> 101						
tttttcaatc	ctgatagtcc	tttatttttt	caaaatatat	ttgccatggg	atgctaattt	60
gcaatagggtg	tcataatgag	aataacccaa	actggataaa	tgtgacaaat	gattgacaaa	120
gcattttcaca	cccttcaatt	acaccacatc	agaatgagg	ggaaagcgtt	gtaaaagtag	180
actactgcaa	tgctacttat	attcttgcaa	taaaaccagc	aagcatccat	atcaagagag	240
ttatcatctc	acttccaact	ttttcccttc	aagaacaatt	tgaatctctt	tggcatccaa	300
agtctcatag	gtcaataaag	cttctgcgag	attcttatgc	tcctttgcat	gagttttcaa	360
gatattgtttt	gctcgttcat	atgagtcact	tagaaggatt	cttatttcat	gttcgatggc	420
agattggggtt	tctggactta	ggttttcc				447

<210> 102
 <211> 368
 <212> DNA
 <213> Homo sapiens

<400> 102						
tttttttcaa	aaaaagaaat	cttttaataa	aaattactca	taaaaatcct	aataaatttt	60
aaagagcaag	atattcctta	ttacatttat	aaaagaacat	ttggtccttt	tacaaaaaga	120
tccttttttaa	tttaaataca	tttcttattt	acagattaaa	cataaaatat	catctacagt	180
tgcaaaagcat	attgcacatt	acagagaagc	atttgtgtat	ttccgtaagt	tttcccagag	240
tttccaactc	tatacttttt	tttgtaaaaa	gattttacctt	tcttatgcaa	aataaataaa	300
aatgcagctt	gtgttttgct	atttaaaact	aaaacaaaaat	aaccttttaa	aataattattc	360
ctctgcct						368

<210> 103
 <211> 685
 <212> DNA
 <213> Homo sapiens

<400> 103						
tgggatcttt	ttttattttt	atacacatga	caagatttta	caccaatagt	cagttaaata	60
gtacaaattt	acattcagga	ggaatgttaa	aaaaaattca	actaaaaaaa	ccacttcttc	120
ctgtgaccca	taatcccaac	attttacagt	gcaggggaga	aggaggcttg	gggaagcatc	180
caaaacaagt	ctctcaaaaag	aaatgacttc	aaaacttcac	attccctctc	cacacgggat	240
tcatagcgag	agtataattt	acaattcatc	cttctctgta	gattcctttt	ctgtttcctc	300
ctcttcttct	tctgtccctg	catccatctc	ttctccctca	tcctgctctg	agtcttctgc	360
gtcttctgag	gtgtcttcaa	ggctcttctt	ctggttcttc	ctccaactgt	gcttcagggg	420
caaagggttaa	actgaggcga	agattctttc	caatcgaaact	ccatacgctt	tgggtgtccgg	480
tagaagataa	cctgacccaa	gtgttgacgg	tttcaaaaca	aactacagca	agaaccatga	540
ctgtcctggc	aacttcaacg	tccttaaaatc	ggcggaataa	gtctccgaac	aggggggggt	600
ctggaatgag	ttcgaacgtt	ttccttagac	cggcatagta	attttgtagag	aaagtccctg	660
ccggccggta	aggctgtggc	ttcaa				685

<210> 104
 <211> 676
 <212> DNA
 <213> Homo sapiens

<400> 104						
gtcatttttt	aattttttatt	gatttttttaa	tgctgcacaa	cacaatattt	atttcatttt	60
gaatttcatt	tattttcttta	tttctgtgct	tgctttttatt	ttattttactg	aaagtgagag	120

ggaacttttg	tggccttttt	tttctttttt	ttctgtaggc	cgccttaagc	ttactaaatt	180
tggaaacatct	aagcaagctg	aaggggaagag	gggttttttca	gaatcactgg	gggaaaaagg	240
aaaggttgcg	gtgttgatca	tgccttatgg	tgggtgacca	actgcttgta	caattacgtt	300
tcactcttaa	ttaattgtgc	ttaaggctga	attaaatttg	ggtgttccct	tcttagagca	360
gctcgtattg	gcggagatgc	atgcgctgga	tgatgtcacg	gcagtcgttg	aagacacggc	420
ggatgttctc	agtgtccacg	gcgcaggtaa	agtgagggtg	gcagtagtgg	cgccatctcc	480
actagcagtg	ctgattctca	gaaactcatc	ccgaatgaan	gtacttggcc	gggtcacgcg	540
tgggtcctct	cccggctcgg	gagtcgcctc	cctacagagt	gtgtagcgag	cgaactctgg	600
aaagtagtcc	tcaatctcga	tttgccaccg	ggactttotca	gcagcaggtc	ttgcttgtgt	660
agaagagatc	acaaga					676

<210> 105
 <211> 367
 <212> DNA
 <213> Homo sapiens

<400> 105						
gacgggaact	gaacgcggtt	ctgggagcag	caagcccacg	ggtagcagcc	gaggccccag	60
aatggccaag	tttctttccc	aagaccaaag	taatgagtac	aaggaatgct	tctccctgta	120
tgacaagcag	cagaggggga	agataaaaagc	caccgacctc	atgggtggcca	tgagggtgct	180
gggggacagc	cgacgccagg	ggaggtgcag	cggcactgca	gaccacgggg	atagacggaa	240
atggagagct	ggattttctc	actttttctga	ccattatgca	catgcaaata	aaacaagaag	300
acccaaagaa	agaaattctt	ctagccatgt	tgatgggtgga	caaggagaag	aaagggttacg	360
tcatggc						367

<210> 106
 <211> 440
 <212> DNA
 <213> Homo sapiens

<400> 106						
ggtgtgcctg	gatgagtggg	agcgtcggaa	atgaggagca	gaggcgcaaa	ttttgcccag	60
cgctctgtac	catggagaag	tttgccttct	actgcctcac	tgaaccagga	agtgggagtg	120
atgctgcctc	tcttctgacc	tccgctaaga	aacagggaga	tcattacatc	ctcaatggct	180
ccaaggcctt	catcagtggg	gctgggtgag	cagacatcta	tgtggtcatg	tgccgaacag	240
gaggaccagg	ccccagggca	tgctcatgca	tagttgttga	gaaggggacc	cctggcctca	300
gcttttggcaa	gaaggagaaa	aaggtggggg	ggaactccca	gccaacacga	gctgtgatct	360
tcgaagactg	tgctgtccct	tgggccaaca	gaattggggag	cgagggggcag	ggcttccctca	420
ttgccgtgag	aggactgaac					440

<210> 107
 <211> 442
 <212> DNA
 <213> Homo sapiens

<400> 107						
gcacacctgt	agtcctagct	actcaggagg	ctgaggtatg	agaatcgctt	gaacttggga	60
gccggagtta	cagttagcca	agattgcgcc	actgcactcc	agcctgggcy	acagagcgag	120
accctgtctc	aaaaaaaaaa	aaaaagatga	tgtaaaacttc	acagggcaag	gtcttggtgt	180
ttgctcacct	ctgggttatg	ctcataaaaac	aagctttttgc	ccatgtaccc	taagtccagc	240
ccaagaatgg	tgtctaccaa	tgattgtctc	ttggccactta	ccgtacgcat	acagaaagtg	300
cgtgtggtta	tcggcataca	caaagaagtc	gtcccccttc	ttgtgggtcca	gcacggaatg	360
gctgttctgg	aagtaattta	acacactcaa	aatgggtngcg	ttcgtgttat	acggtgaaaag	420
aggggcccaag	cagatgtctt	ga				442

<210> 108
 <211> 453
 <212> DNA
 <213> Homo sapiens

<400> 108						
gagactgcat	agggctcggc	gtgggggggta	ttctactatt	ttgtcagtgc	cctgggcata	60
acagcaggag	ctcatcgtct	gtggagccac	cgctcttaca	aagctcggct	gccccctacg	120
ctctttctga	tcattgccaa	cacaatggca	ttccagaatg	atgtctatga	atgggctcgt	180

gaccaccgtg	cccaccacaa	gttttcagaa	acacatgctg	atcctcataa	ttcccgaagt	240
ggctttttct	tctctcacgt	gggttggctg	cttgtgcgca	aacaccacgc	tgtcaaagag	300
aaggggagta	cgctagactt	gtctgaccta	gaagctgaga	aactggtgat	gttccagagg	360
aggtactaca	aacctggctt	gctgatgatg	tgcttcatcc	tgcccacgct	tgtgccctgg	420
tatttctggg	gtgaaacttt	tcaaaacagt	gtg			453

<210> 109
 <211> 421
 <212> DNA
 <213> Homo sapiens

<400> 109						
ttttttttgt	gcagaaacat	tctgaactac	aaagcggcct	atTTTTtGctt	ctggatatgg	60
aactccttgg	ggatcagaat	agaaagcttc	tagctcaaaa	ggcccccttc	tcagaaaggt	120
gagaactttg	gagaaaggag	cagcatgggt	tcgactaaaag	acttcatgaa	caccttcagt	180
atcttctgaa	tcatgggtcc	agatcagaga	tattggaaaa	ggaactgcat	ctgtgacgga	240
aaattctcta	actttaaatg	ccggggaaaag	tattgcacac	tgtaatgcac	atcctctggc	300
tactgcttca	tctgcattga	gtgttgtgct	aatatctttt	ccaaagaatt	tggcaattct	360
ttccttcaca	gctggaattc	gtgtagcgcc	tccatcaatc	tctactgcac	tcacatcttc	420
t						421

<210> 110
 <211> 309
 <212> DNA
 <213> Homo sapiens

<400> 110						
ataagaatgc	ctgctagcaa	gggttccagc	aaggtgggtg	gttgggtctgt	aagtcagtct	60
tgagtacttg	aaacagttct	gtgtttgttt	tttttcctta	gcgttttagaa	tagccatcat	120
tgctcctgcaa	taggcagagc	tatcacgtcc	aggaaaaatg	agggagggaa	ccacagaggc	180
agcgtgagat	ccaaatacac	cattcaaagg	taattgggtcc	agtgggtgct	ggggagggag	240
gaaggggtgat	actccagggg	tagccgtctt	cttttggggg	tgtgtacagc	cgtttttttc	300
gtggatctg						309

<210> 111
 <211> 489
 <212> DNA
 <213> Homo sapiens

<400> 111						
ctactactac	taaaattcgcg	gccgcgtcga	cgaagaagca	ggtattttatt	ttaataaagg	60
aatgggttgg	attctagtta	atcaagtaat	tctttttatta	gcaaggcaga	aactagtgtt	120
tttctataaa	cttgaatgtt	aattgtacag	gtgtattttta	caattttttgt	ttaattaaaa	180
aaatgttact	atattaataa	tcaacctggg	caaaaccttt	caggtttctt	cgtttgagtc	240
agtcgccttg	attcagaatg	tcacgagcct	tatgatataca	tgctgaggcg	ccttgcaaat	300
ccgacaatta	agatcctcct	agaccttgag	gtgatcagca	taagaggcca	gatcccctcg	360
agtcattctac	acctagcttc	accttattct	ttaaagggca	gaaaatttga	gacgggtgatc	420
gccgtaacag	taaaatttggc	ttacaattgg	ggcacccctc	cggttttagaa	agaggaacac	480
cagattgac						489

<210> 112
 <211> 563
 <212> DNA
 <213> Homo sapiens

<400> 112						
ggactcagaa	ttgatgagag	acattttacag	catgcacatt	ttccttactg	aaaggaaaact	60
cactgttgga	gatgtgtata	agctggtgct	acgatactac	aatgaagaat	gcagaaaactg	120
ttccaccctt	ggaccagaca	tcaagcttta	tccattcata	taccatgctg	tcgagtcctg	180
tgcagagacc	gctgaccatt	cagggcaaaag	gacagggacc	tgaggagccg	agcgaatagc	240
atctcctccc	acctcccacc	agagacgtcc	tgtttgagct	gtcagggtgta	atatatgaat	300
tgacttaagt	taatataaat	gtgtacataa	tccacatttg	tagtcaagga	cgcaatctct	360
tccacacatg	tgcagttgtc	agttgggtaca	tctaaactcc	ctccatcctg	actcacgtgg	420
acttagatat	gttttgtttc	tattttcttc	tatgtcagtt	tttcattctt	tgatgtttat	480

gtctttttgtc catcagatct cttgtgatat cacatggaag gttgtgctca gcctgtcggg 540
tctctttctt cctgcacata tat 563

<210> 113
<211> 587
<212> DNA
<213> Homo sapiens

<400> 113
tttagccctg tgggaattatc ctcaattgca catcagctgg atgaggagga gaggatgaga 60
atggcagaag gaggagttac tagtgaagat tatcgcacgt ttttacagca gccttctgga 120
aatatggatg acagtgggtt tttctctatt caggttataa gcaatgcctt gaaagtgttg 180
ggtttagaac taatcctgtt caacagtcca gagtatcaga ggctcaggat cgatcctata 240
aatgaaagat cttttatatg caattataag gaacactggg ttacagttag aaaattagga 300
aaacagtggg ttaacttgaa ttctctcttg acgggtccag aattaatatc agatacatat 360
cttgcacttt tcttggtcga attacaacag gaaggttatt ctatatattgt cgtaaagggg 420
gatctgccag attgcgacgt gaccaaactcc tgcagatgat taggggtcaac agatgcatcg 480
acaaaaactt attggagaag aattagcaca actaaaagag caaagagtcg ataagacaga 540
cctggaacga gtgttagaag cacatgatgg ctccaggaatg ttagacg 587

<210> 114
<211> 222
<212> DNA
<213> Homo sapiens

<400> 114
ttttgaatca aaattaacat caatatatag attctagtat attcttctta aagccttttag 60
aaaagataaa atgacatttt gcaacatatg ccaaacttca tgttttagtgt acacttctaa 120
ttattggcat agagggatat aactgttaaa taacctgaaa tgacaccatg caatgggtgaa 180
actacagaag ttgggtgaaaa gaagtattta cataatgtaa ta 222

<210> 115
<211> 512
<212> DNA
<213> Homo sapiens

<400> 115
tttttcttga tatgcatagc ttttcggggg tgggtattaga catggctttc gtaaataatg 60
cagggtgtttt tgtcatgtgt cactgctggc tctgtggctt ccaggtaagc tggcggcagt 120
accttatctg gtacctcaac aggtgttggc tcttcagatg ttagctcggg ggacgtgaca 180
tcggtagaag gttctgcagt ttccgggggaa tgttccgccg acagtctctg ttcctctaca 240
tctttgactt caaactgtcc accctcttgg tcatctgcat gctctttttt ggactgcggg 300
tgaactgaca ccttgatggc aatttgctga ggttgctcgt gcagcgatga ggcgtccgag 360
tcagcggcag gggagtcgct ccgcttcaga gagttgggga ttgtgtagac ctcatccctg 420
tctgcggcct cctggcctct ggagtatgcc tcaaaaattc tgccccgggc ctccagccca 480
accacctcat aatctcctcc atgatagtcg cg 512

<210> 116
<211> 566
<212> DNA
<213> Homo sapiens

<400> 116
tttttttttt gttttttaac cccccccgag aagctctgtc ccagctgat gcccatgttg 60
gaagaggctt tgcggagagg agcccatacc agcgcaaaagc tganctcctg gtgctggccg 120
tgctgtctga cggagctggc gaccacatca ggcagagact gctgccccca ctgctgcaga 180
ttgtgtgcaa gggcctggag gacccctcgc aagttgtacg caatgctgcg ctgtttgcc 240
tgggccaagt ctcagaaaac ctacagcccc atatcagcag ctattcaagg gaggtaatgc 300
cactgctcct cgcctacttg aagtccgtgc ctcttgaca cacacaccac ctagccaagg 360
ctctgctatg cctggagaat ttgttgagga acctagggcc caaggtgcag ccctaccttc 420
cggagcttat ggaatgcatg ctgcagcttc tgaggaaacc cagcagtcct cgggccaagg 480
agctggctgt gagcgccctg ggagccattg ctacggctgc ccaggccctg ctgctgccct 540
acttccctgc catcatggag cacctg 566

<210> 117
<211> 549
<212> DNA
<213> Homo sapiens

<400> 117
ccctgtgcaa tgttttagctc tcacccact cccaagtgcc ataattgaaa taatactggt 60
ttggagaatt agtacagatt ggtcataaat gccgcataaa gtccgtagat ccaggtaaag 120
gtattttcaa atggcgtagt aatgcactgc agctgccgtg gccacaaaca ggtgccagat 180
ggcgtgggca aatggaatga tgccatcact cttgaagaac acaactccca agcaataaat 240
taagccccca caggcaagtt cctgaagtcc atcgggtgtg ttcattgatg tcaccaccaa 300
ggctggagag aatcccattg tgagatagaa aaagagttca accacottat atttttcatg 360
gtagagaaat acataaatgg ttccctccagc tgccatgagc cagataaacc aacgcatatg 420
agatgccagg ggtccaagtt cacgaagatt taacctgga gcataagaag cagcaatgaa 480
gaaatagata accattctat cacacatgtg aaaacaatgc tccactgtcc ttaagtggct 540
ctttttcca 549

<210> 118
<211> 416
<212> DNA
<213> Homo sapiens

<400> 118
ccggggcaca taaatagtat ggcttagaag aaggcggtggg tacagatgtg cagggaatgct 60
aggtgtggtt ggttgatgcc gattgtact attatgagtc ctagttagact tgaagcggag 120
aaggctacga ttttttttga tgtcattttg tgtaagggcg cagactgctg cgaacagagt 180
ggtgatagcg cctaagcata gtgttagagt ttggattagt gggctatttt ctgctagggg 240
gtggaagcgg atgagtaaga agattcctgc tacaactata gtgcttgagt ggagtagggc 300
tgagactggg gtggggcctt ctatggctga ggggagtcag ggggtggagac ctaattgggc 360
tgattttact gctgctgcta ggaagaagcc caataagtggt gtgaggcttg gtttag 416

<210> 119
<211> 405
<212> DNA
<213> Homo sapiens

<400> 119
cgggccttta cctgcgacga cctgttccgc ttcaacaaca ttaacttggg tccacttaca 60
gaaacttatg ggattccctt ctacctacaa tacctcgccc actggccaga gtatttcatt 120
gttgacagag cacctggtgg agaattaatg gggtatatta tgggtaaagc agaaggctca 180
gtagctaggg aagaatggca cgggcacgtc acagctctgt ctggtgcccc agaatttcga 240
cgcttggtt tggctgctaa acttatggag ttactagagg agatttcaga aagaaagggt 300
ggattttttg tggatctctt tgtaagagta tctaaccaag ttgcagttaa catgtacaag 360
cagttggggt acagtgtata taggacgggtc atagagtact attcg 405

<210> 120
<211> 318
<212> DNA
<213> Homo sapiens

<400> 120
cggacgcaag tacatccaga cagacagcgg cccctactgt gtgccttgc atgacaatac 60
ctttgccaac acctgtgctg agtgccagca gcttatcggg catgactcga gggagctgtt 120
ctatgaagac cgccatttcc acgagggctg cttccgctgc tgccgctgcc agcgctcact 180
agccgatgaa cccttcacct gccaggacag tgagctgctc tgcaatgact gctactgcag 240
tgcgttttcc tcgcagtgtc ccgcttggtg ggagactgtc atgcctgggt cccggaaagc 300
tggaaatatg gagggcca 318

<210> 121
<211> 460
<212> DNA
<213> Homo sapiens

<400> 121
 ttttaattctaa gaattttcttt attttatgca taataaaaagg gactacaaaag aacagctgaa 60
 aagccagaag acaaaaggaac aaaaataaac aatgacgtgt attccaaccc aaacaatgag 120
 aaatctatgc aactagacta tcagttcaat ctatttccag gtcgctatcc tcaactgtgac 180
 acgtggcaga gttacgcaca gatgtcagca ccaagacttc cttttctggg agtaatccaa 240
 attcctggag aaaagcttca aggtccacag caaagaaatc atccccacag tggtcagtaa 300
 cacgaacaaa attgccgatc aattcacccc ccttatagat cagcagggca ggaagggcat 360
 tectgggtgaa ctgactgctg gcgccaataa ctgagctctt caccttgcag aacttgacag 420
 ctgggtactc tgcggcaagg cagatcatgc aaccattcat 460

<210> 122
 <211> 672
 <212> DNA
 <213> Homo sapiens

<400> 122
 atagagcctc acagctgcca gctgttcccg ggcccgaac gtctgggtca gtgaggtccc 60
 atctggcagc ctgacctgra tgcgacactg gtcatactcc cgcttgggtg gaggctctctg 120
 gctgggagaa gagggaaacag gacctggctc tgggtgccact gggggtggct gagagcccac 180
 actgccacca tacttcttgg ctctctctgc tttgtccctc tcgatctttt ctctaactct 240
 ttgtctggct gctaactcct cggccttttc cctccgcctc tccctcagcag cccggcgcat 300
 cctatcttcc tgtagccgct gtcgtgctgc tgacaactct tgcccttgtc tectgctgctg 360
 ccgttccccg ttcaatgcct cccgttcttc tctttcttca cgctcccgct gcttctgggg 420
 ccacagctcc aacatccctt ctagtgtgtt ccgtctttcc tcttcaactc aagnggggtt 480
 tgccttctcc cgcagccaga aacagattct tcaaggggcg ctggtccttg aggaattggg 540
 gtcccgtccc aagatatgtc caaggggagg ttcaaaaagg tctttcaaaa tccgggttgg 600
 cttggtcttc aaaaaacat tccatgaaa cttgagtcct ctgttccctt gaaggggcaa 660
 aactttctcc gg 672

<210> 123
 <211> 310
 <212> DNA
 <213> Homo sapiens

<400> 123
 gcacgagaaa tatctgccta agtgggacct gtgaaaacac gaaaggctca tttatctgcc 60
 actgtgatat gggctactcc ggcaaaaaag gaaaaactgg ctgtacagac atcaatgaat 120
 gtgaaattgg agcacacaac tgtggcaaac atgctgtatg taccaataca gcaggaagct 180
 tcaaatgtag ctgcagtccc ggggtggattg gagatggcat taagtgcact gatctggacg 240
 aatgttccaa tggaaacccat atgtgcagcc agcatgcaga ctgcaagaat accatgggat 300
 cttaccgctg 310

<210> 124
 <211> 302
 <212> DNA
 <213> Homo sapiens

<400> 124
 gcagagctgg acctccagac ccggatgagt ctgcggtcct tctggaggcc atcgggcagt 60
 gcaccagaac cgattcatcc ggcagagcgg canagcagca gcagcaacaa caacggagtg 120
 aagagctgct agcagagaga aagcctgggc ctctggaggc ggggaagcgg gaccagccc 180
 tggggagatg cgggatcaga gccccaaagg aagagagtca agagaagaga gactaagtcc 240
 gagggagacc agagagagga ggctggggat agggggagcc caagagttag gcctgaggcc 300
 tc 302

<210> 125
 <211> 811
 <212> DNA
 <213> Homo sapiens

<400> 125
 tttgaggttt gtaagaattt tttaaacaaa acagaaatca cagtgaacaa gggtaatgcy 60
 agtctgtgtc ttctttgccc atgctgtctc ccacagctct cgggtgggtac taaatgacg 120
 gccactgcat gatgcttgtg tctttcccg cctgtggagt gaggtggctg tcttcacaga 180

ggaaatcgac	attggtgaca	tggctgctgt	gccccccgta	gatgtggcct	ggagccctga	240
actgcgagca	ggggtatgag	aagaggtgca	ctttgccaaa	gtcgtcgcct	gttgacagga	300
gtttcttctc	atgggccccga	cagacggcat	ttatgttgg	tccgtccgag	ccttctgggc	360
acactccaaa	aaaatggaat	ccaaaagtgg	aggatatagg	aggccattca	atgtctcttg	420
tagtttccac	acttacgact	tgccttacagg	cagagggaac	ccagtagagg	atttcgtagt	480
ctccggaatt	tgacacgagg	aactgtgagt	ttacagacca	gtccaggtga	gtaatgaagc	540
tgggaatgacc	cgagcacttg	cccactcgcg	tgtacttcct	cccgtttgta	ctaaaggcat	600
atatatagat	gcagttgtcc	tgtgagccta	tggtaaagaa	atttcccatc	tggtgagtat	660
tgcattacag	agaagccgac	ggttccatcc	tgtgtgaagg	gggaccaagt	cttttgtttt	720
tcgtgttaaa	aacaacccac	ctcccagtta	gtggttcgac	ttcaaccac	gacccttgag	780
ggatgaaacc	aagagaactg	gccggtttct	c			811

<210> 126
 <211> 456
 <212> DNA
 <213> Homo sapiens

<400> 126	taaaatacaa	aaaacagctt	tactcagact	ttttgactgc	catgtcctcc	60
ttttagaagga	ctacagtttg	gctacttggt	ctcttctggg	gcagatgtgg	catcctgagg	120
tgtgttagct	tctgccgggtg	cagatacagc	tcctaccaca	gtaggggtgg	tctcagataa	180
agcaggggat	gcttctggag	tggaaagtggc	tcctgtctca	ctgggggtgg	tgtagtcttg	240
aaaggctgga	gtttcttgac	ggcagctggg	gtctgttggg	ctgggtatga	tgtagccttg	300
aacagtcagt	gcctcttctt	ctgtttccaa	ttctgtttct	tgattttgaa	cttccctacc	360
ctcttctacc	atagcaggtg	gtagttgtaa	taaagtctga	tgataatgat	gtgtagctctg	420
tatcaaatgc	atgtacatgt	tgtatacaaa	gtttgc			456

<210> 127
 <211> 292
 <212> DNA
 <213> Homo sapiens

<400> 127	ttccgactct	tttcacatgt	ttttcgatag	cactgccatt	ttggctggac	tggcagcttc	60
tgttatttca	aaatggagag	ataatgatgc	tttctcctat	gggtatgtta	gagcgggaagt		120
tctggctggc	tttgtcaatg	gcctattttt	gatcttccact	gcttttttta	ttttctcaga		180
aggagttag	agagcattag	cccctccaga	tgtccaccat	gagagactgc	ttcttggttc		240
cattcttggg	gttgtggtaa	acctaataag	aatatttgtt	ttcaaaaatg	ga		292

<210> 128
 <211> 433
 <212> DNA
 <213> Homo sapiens

<400> 128	gtaatttcat	agttattttta	ataaccaggt	ttacattaac	agtcacgtga	tgaacttttt	60
tcttttaatgt	cagctaaact	caaaacacag	ttttgttcac	ggttcaaacc	aaacagctct		120
tcacgttcca	gagctgcctc	acagctagca	cagntccacag	gagattactg	tctgtccata		180
cccaccagac	acagaactga	acaccacac	accagttttc	aaagaggga	cttacaatga		240
atgctggctg	cccagggcac	ccatgagtgt	atctgggnct	caagctggag	ttttccaggg		300
gagaaaagcct	gggaagcttg	gtggcaagga	agttgggnat	tgcccaccct	actgggaaag		360
gggtttctca	gggggttgagt	gaaaatcccg	ggtaggnngt	cagccctttg	tgggaaacat		420
gggcactttc	agt						433

<210> 129
 <211> 372
 <212> DNA
 <213> Homo sapiens

<400> 129	gatccaggag	ccacacagct	gccatgggtc	anaaggccct	ggaaaccgac	ccaggagatg	60
ccgtgggttg	cncgctttgc	ganttgctga	ttctaactat	naagccattc	gtaagggtacc		120
tcgaaagggtg	gccagaagta	tctcctgcgg	ccctctagc	agggtggtcg	ccagcatttg		180
cactgaagaa	ccagcgttgt	ctgaggttgg	gccacccgac	ttagcaagca	caaagggtacc		240

```

cccagatgga gaaagcatgg aggaagagac gcctgggtcc tctgtgggaa tctttggatg 300
caagcttcca ggctagccct ccacaacagg aagatgagga gactgagaga agtgcaaagg 360
aacttgaaa gt 372

```

```

<210> 130
<211> 528
<212> DNA
<213> Homo sapiens

```

```

<400> 130
gagcggagcc ggagcgggaag ccgcagccgg gcggcgggag cggcgggagc gggggaagca 60
gggcggggcc ggctccatgg cgcagcggc gtccgcctga ncagcgcggg caacagcggc 120
ggcgtcggcc ggatcgggccc gcgacacctc ctggccatgg gggacgtgct gtccacgcac 180
ctggacgacg cccggcgcca gcacatcgca gaaaaaacgg ggaagatcct gacggagtcc 240
ctccagttct atgaagacca gtatggcgtg gctctcttca acagcatgcg ccatgagatt 300
gagggcacgg ggctgccgca ggcccagctg ctctggcgca aggtgccact ggacgagcgc 360
atcgtcttct cggggaacct ctccagcac caggaggaca gtaagaagtg nagaaccgc 420
ttcagcctnt tgccccacaa ctacgggctg gtgctctacn aaaacaaagc nggtctatga 480
gcggaggtnc caccacgagc cgtcatcaac agtgcangct acaaaatc 528

```

```

<210> 131
<211> 521
<212> DNA
<213> Homo sapiens

```

```

<400> 131
agaggaaatt gattagctat ggtgtaagtt ttcgggagag tcatctgaat gttgttatat 60
ccataagcaa tagctgcac ttctacaata tcacatgcat ggataatgtc agctctgggt 120
ggagggattt caatctcaat ctgattccca tcacctatga cttctgattt taaatacatc 180
ctggtcagaa gtttggcaag attttctgga gtttctctga ttccaacttt tttgttaatt 240
aggtcagctc tcaccatctc ctttcggtaa gctaattctg gaaaggatat tgattttcca 300
ttaggaaaaa ccacttcagc agcttcgacc gtaaatgat tctcacaata ttactgaac 360
atggtgacaa taatatcaag aactatnttt gccttagtaa agtcagttcc cgtgcattca 420
ataaaaaatat ttctagtatn tactgttatt ctggaatgat ccccatgat gatgggaggc 480
attgaaaaga cgacaccatt gctatcatag ataactggat a 521

```

```

<210> 132
<211> 429
<212> DNA
<213> Homo sapiens

```

```

<400> 132
gagggggaga cgggggagcag atgcctcaaa ggggggtcaaa gagaggggaa ggaaattgca 60
cataaataaa ccgatgatt ccaaattgcaa ggagtcctca gagcggagcg cggacggctt 120
ttccggagtc ctgggtctgc atctggcgcc ttggccctg ctcactcgcg ctctcctctc 180
ctctctctc ctctctctca ctgcttgagc tccagggcc agacgtgctg cggccagccc 240
gtccggcctt tgggtttctt gtcgttgctg ctcactgtgc ttttcaagat ttggttctg 300
acagaggaaa ggcgaggcg agaaaagtgg aaagagaaat tcagagagga tacctgggtc 360
cacaccaacc cggagcttcc tgcgcgggag gagacagtga accagagagg aaaggatagc 420
atggggggag 429

```

```

<210> 133
<211> 442
<212> DNA
<213> Homo sapiens

```

```

<400> 133
tcaaacataa acttggtatt ttatacttct ctatactttg tagcaaatct ttttttgctg 60
aatttaattt ataataaact ttttaaatca catctctctc tttttttttt ttaaaatcaa 120
ggctctttta tgtcaaaatc ttttttttag tatatttttag attaacattt aacatcccc 180
ccttggtgat tataccgttg gatattcagg tattactgtg tgtgtaacag ctaaaacaag 240
agggaggagg gaaaataaag gcagtgaact tggacggatg catcaacaac agcagataaa 300
gctaaccct cagtgacct agcagcatgt cttctggaag cttttactct taccacagag 360
atctcctcag ccccttccct ctctccctcc tctctccaa acacaaagcc aacagtctgt 420

```

ccttttcgctt ttcttgagga ga

442

<210> 134
<211> 913
<212> DNA
<213> Homo sapiens

<400> 134
ttttttttcga ttccctctca tttattcctt gtggaaaaag aaaaacacaa atcttaaaaa 60
ctaaagcaag tcagggaagc ctggaaagat acccagattt gataacatgt tagaaggaaa 120
tccaggctaa ggaatctcat tttctagctt tgatctgggt gtcagttggg atggacttgc 180
ccaagtgatg gcccacagaa aggccaaaatt tcttggtttt ctctcatcc tgtacctctt 240
ttttcattaa gaatcctgcc tggaagttaa ggtcaaagag gctgcttggg gcaaaatata 300
gtgggtgtctc attcccnnaa atatttttcc ttcccccccc caggcggtttc ttcattcctt 360
aggatttgaa ttccgggcgtc tgctggagtg gcccaatgct atatgtcagt tgagggttcta 420
agacttgga gcccacagaaa tgcagaatgc cactctgaat tggccagaga atgacattca 480
tgtccccgtg gatcccttgc agagagtaca tggagccact gccaccagt gtgatggaaa 540
gcactgcctt cttactccgg aagggtcctt tgtcatatat ggcagcgtaa gtgtaagcaa 600
actcttctat gaacactcgc tcaaacaccg ctttcagaat ggcagggact cccaaaccac 660
tgcagggggg actgggatat cacaaagggtc tgcggctttc cagcttcttt ttggtcagcc 720
acaaatatct gggctcagat gggcttttct tattaagcag aacaagattc gcaggatact 780
ggaaagtccc aggggtcctt cagtttactt ggaagggcct tttgggaaa aagggatgga 840
aattatggga taaagggggc gattccacaa cttccttctt tttttttaa gccggtgggc 900
aagctcctta tgg 913

<210> 135
<211> 750
<212> DNA
<213> Homo sapiens

<400> 135
tttttttttt ttgtcattca tagtaaaagt ttattgaaca gaaaaccag caaagggttt 60
cacctccgca aagttccct tagtttaaag taaagcactg cattttaaaa agcaattata 120
cataagtctt tcctagaaaa gtctgtctaa aacatgtcta gcaatttcat tgattatata 180
aagtagtaca cttagtgtaa tttaaacatt ccaacaggaa tcaaatcgta ccagcagaac 240
cacttctgca tctatgactt ctatgtacaa acacacatgc agacacacac atttggaaaa 300
gttcctcaag catagacatg caaaccttaa ggccttctac gtacagtgtt tattaaacta 360
catagagtat atattaaagc tcttcagaat aaagacatga gaagccttgg gcattntttg 420
ttcaccaatt tgtatcacgg cttcacgttt ctgcttttgc ttgctcacia aagcatatca 480
tcatccacac tgttttttaa aaactcatca ttgccatgtc caggagaggc aatctagctg 540
gagtcagggtg atccagtcca ttctgttcaa agcctccaac agctacagca caaacaccat 600
cagnttgcaa tggctggggg gccttctgga agaagagagg caaagaaagt cttgaagaca 660
agccatgctg tgctcataaa ggaggggctg gtctgtctgc catctagtag atccctgtct 720
tggagggagg tgggttgggg tttccatttc 750

<210> 136
<211> 348
<212> DNA
<213> Homo sapiens

<400> 136
aaaacgacgg ccagtgaatt gtaatacgac tcaactatagg gcgaattggg cctcttagat 60
gcatgctcga gcggccgcca gtgtgatgga tatctgcaga attcggcttt tgacaccaga 120
ccaactggta atggtagcga ctggcgctca gctggaattc cggctgggac taccgggtct 180
cactccagaa gaggtctctt cagagcatgg tagtcttggg gttctaagag aatgagagta 240
gaagctgcaa aacctcttga aactgggggt tgggagtcac acatgacttt ctccacattc 300
tgctcgtcaa aagcgaatca taaggacagc acagactcaa gggataag 348

<210> 137
<211> 505
<212> DNA
<213> Homo sapiens

<400> 137

aaacgacggc	cagtgaattg	taatacgaact	cactataggg	cgaattgggc	cctctagatg	60
catgctcgag	cgcccgccag	tgtgatggat	atctgcagaa	ttcggctttt	kacaccagac	120
caactggtaa	tggtagcgac	cggttctcag	ctggaattcc	ggattggtcc	aattgggtat	180
gaggagttca	gttatatgtt	tgggattttt	taggtagtgg	gtgttgagct	tgaacgcttt	240
cttaattggg	ggctgctttt	aggcctacta	tgggtgttaa	attttttact	ctctctacaa	300
gggtttttcc	tagtgtccaa	agagctgttc	ctctcttggg	ctaacagtta	aatTTTacaag	360
gggatttaga	gggttctgtg	gggcaaattt	aaagtTgaac	taagattcta	tottggacaa	420
ccagctatca	ccaggctcgg	taggtttgtt	gcctctwcct	ataaatcttc	ccactatttt	480
tbtacataga	cgggtgttct	ctttt				505

<210> 138
 <211> 513
 <212> DNA
 <213> Homo sapiens

<400> 138						
agggccgagt	ggaggtgctg	gtggagagaa	acgggtccct	tgtgtggggg	atgggtgtgtg	60
gccaaaaactg	gggcatcgtg	gaggccatgg	tggctctgccg	ccagctgggc	ctgggattcg	120
ccagcaacgc	cttccaggag	acctgggtatt	ggcacggaga	tgtcaacagc	aacaaagtgg	180
tcatgagtgg	agtgaagtgc	tggggaacgg	agctgtccct	ggcgcactgc	cgccacgacg	240
gggaggacgt	ggcctgcccc	cagggcggag	tgcagtacgg	ggccggagtt	gcctgctcag	300
aaaccgcccc	tgacctgggtc	ctcaatgcgg	agatgggtgca	gcagaccacc	tacctggagg	360
accggcccat	gttctctgctg	cagtgtgcca	tggaggagaa	ctgcctctcg	gcctcagccg	420
cgcagactga	ccccaccacg	ggctaccgcc	ggctcctgcg	cttctcctcc	cagatccaca	480
acaatggcca	gtccgacttc	cggcccaaga	acg			513

<210> 139
 <211> 340
 <212> DNA
 <213> Homo sapiens

<400> 139						
tttttttttt	tttttgaaat	gagtaaatTT	atagctttat	ttgcatacag	aaaagtgcac	60
gagaaaaataa	gtatgtacaa	aacagttgtg	tggctgatca	tgactttcaa	aaattcaact	120
acctagaaat	agttacctcc	agtttagcac	atTTtaggtat	ttggacattt	aaagtactat	180
ttcaagtctg	tgtttatagt	gactgagtag	gaagctgata	gaaaatttatg	ccatatatga	240
tcaactatta	ccattaaaca	taaaaccaca	ggacttttcta	cttggggcta	atcaatagag	300
ggtcagtgtg	ccccctgtctt	gtttagcttc	tgagcatcac			340

<210> 140
 <211> 334
 <212> DNA
 <213> Homo sapiens

<400> 140						
ggcctttttg	ttccagaaaa	atagagggga	tctctgtgga	gcctcttttg	tttttcatca	60
attctggggc	tattaaaaact	agccattcat	ctaacgaggg	ccaaagcaat	tccagaggct	120
tgaacacctg	gcttttttggg	gtttttattcc	cattgtagcc	catatcaatt	ccattactgg	180
gggaggatgg	accaatttcga	aagacgtgac	aaaacattct	cacaatcctt	aaaaggctct	240
tcatttgagc	atcataattg	ctagagaggg	taagcagttt	atgaccattt	gttgtagcaa	300
cttcagcaag	gcttggttaga	atcttttaggt	actg			334

<210> 141
 <211> 497
 <212> DNA
 <213> Homo sapiens

<400> 141						
tttaagggtta	cacgattatt	tattgagagc	ctcctctccc	cgcccttgca	atctctaggt	60
cacttttctcc	gcttgtagat	tttgccgcga	agccccagaa	agacggctgg	gggcaggggt	120
gctgcgtact	gttcaatgag	agccataatg	tggctgtaac	tgtcttcttc	atattgcaag	180
aacactgctg	gcagatccag	ctcctcatat	agcgccttca	cccgggccac	tttctcagcc	240
tccttctgce	cgtaattttt	cttcaggatc	tggtagctgt	ctggagtggc	ccgttgacaga	300

cactgaacca	ccagccagct	gcatttggtg	tcctggatgt	cagtgccaat	tttgccggtc	360
acactggggg	ccccaaagag	gtcaaggtaa	tcctcctgaa	tctgaaagaa	ctcccccatc	420
tccagcagga	tcttcttggc	attggcgtgc	tccttctcgc	catcaatcc	tgccatgtac	480
atggctgcag	ctatagg					497

<210> 142
 <211> 353
 <212> DNA
 <213> Homo sapiens

<400> 142						
tttttttttt	tttttagagat	tgttggtgact	tttattcaat	ttgaaatccg	gattaaaata	60
aaagcagtga	gagcaaagct	ttacaaatat	tacattacta	cgtcattgat	atggctttta	120
cactgattgg	atacagggaa	aaaaaaaaacc	taacattaga	attaaggcag	taacaacatg	180
tgcaaaccca	gcacaccccc	tgacagtctt	cagtagaaaa	ctactctggt	caggtgggtat	240
ctgacatggc	tgcatgcagg	tctcattgca	tggaaggata	ggtcctgaag	agcttcattc	300
cttaaagggg	aaaaggaccc	ttctcactgg	ccaacgatgg	ccaggagcag	ctt	353

<210> 143
 <211> 559
 <212> DNA
 <213> Homo sapiens

<400> 143						
atgcttcaca	ottggtttgc	ttatattgat	catttaaaaa	gagatattaa	tcttacctat	60
tgccatgaat	atttcattta	cattcattga	tgttttagcg	gatgtctcca	tgaataataa	120
actattgtca	tctgcatagg	actgtgcttc	ctggaaatct	actgctcttt	tatttgctag	180
gtcggccttg	tttcccgata	aagctattac	aatggttagga	cttgcttgcc	tctgaagtcc	240
tttaacccaa	tttttttgctc	ttgcaaagga	ctcctcattt	gtgatccat	atacaactat	300
ggctgcttgt	gctcctctgt	agtacattgg	tgctaggcta	tggtatcgtt	cttgaccagc	360
tgtatcccat	atttcaaact	ttactgtagt	gtcatcaaga	catacagttt	gggttagaaa	420
agcagcccca	atgggtactct	cttgaaatca	tgacattggc	tttcacaaaa	caagcactag	480
gcttgatttg	caacagcgga	ctctcccaga	gtactagttt	gaactgcata	tntatttcca	540
gtattggccc	cgtgggtct					559

<210> 144
 <211> 572
 <212> DNA
 <213> Homo sapiens

<400> 144						
ttttttttcc	ttttaaatgc	ttctttttatt	tcatttggtg	tacattgggt	gagtgaactg	60
aatattacaa	ccaaaacata	gtattgatac	aaattagact	cctgtttaca	ctgtaaggta	120
atgaatgagg	gaattcttta	agtgttacag	aaagatttag	tagaaatggt	accagtggta	180
tggctgaaag	aatatttctg	tgaagtgtct	ttatatcctg	aaaaccaaga	gtgaaatgta	240
gttcccatac	aagtggagag	ttagtctctt	aactacagta	tttgttgaac	tgatatcttc	300
atgtcttgga	tattgggtgat	ttttgttttt	taattaaaca	aagcatttaa	gattttattca	360
tcatagtcag	acttctgaat	ataaacaaac	ttttggcaaa	taatatttat	acagaaaaat	420
agtttttagat	cctctcaaat	cccagaatta	ttctataaaa	ttacattata	aataaataaa	480
aagcaaaatc	tgttgtacat	atatttgtac	atctatgcat	ttgccttgcc	tcctccttat	540
tgtaaatggc	atattttatga	ctcttttgcac	at			572

<210> 145
 <211> 402
 <212> DNA
 <213> Homo sapiens

<400> 145						
tttttttttt	ttttttgtct	taaggaagtt	ttttggcatt	cttttttttt	ttagattaca	60
acacacatac	aataagtgaa	ttttatcaaa	atacagcaca	tttctctctac	tatatccata	120
aaaatcaatt	cctatgtaaa	tagtactgaa	aatcaactaa	aatgagttaa	aattttacaaa	180
gagttgttaa	agggtttcaa	tcaaaattat	taaaactata	cagtacaata	accaattgat	240
aacatcttga	aagaagtgca	atatttgtag	tcacatattt	ttaaaagtgc	tgccacttta	300
ctctgactag	caagaatgga	aagtgagtcc	aactcacttt	tgcaaaaata	atgttgggtg	360

gtgtttttaag ctagtcttat aaaagtctta attaaaaatca ag

402

<210> 146
<211> 482
<212> DNA
<213> Homo sapiens

<400> 146
agtagaaaca aagtatgttt aatgggttgc ttggaaaggg gaagtgggca cctcatgcca 60
gggagatttta aaaatgagac ttttcaagca agcactgcct atagcatagt ctcatatatt 120
gaaaatttta acctaatttt aattatata aaagaactat tttaaaaaat cacaccaca 180
agtaaaaaaac tggtaatctg ttacaaaagt gcagcgtcag tacagcaaac tcatctcaac 240
aaaagattat gtgtgggtttc tggggcttta aaactcccc gggttccatt taaatgcttt 300
aacattgagt catcctgcat acatgaaaag cctgtgtaat gaagcctggg tcccttaaca 360
cctgctatta attaattcca acataagtga gtatgagacc tngaaagtaa attgtcatca 420
tctgattgat gaggtacaga ttatctgaat aaaatttctg acctgggtat gagtcastaa 480
tc 482

<210> 147
<211> 489
<212> DNA
<213> Homo sapiens

<400> 147
tttttttttaa cattcctaag tttctttatt cttcatagtt ttctaataa caaatagtta 60
gttttctctga gtaagattat aaaaaagtta accattcttc caaaagtata aagacaaata 120
aaatgtcgac tcataatata aattttttac atagcattaa aggtgcagat attgactgcc 180
cctcttcatt atgattggcc caccctttaa aaagactgca acagaggatt caattgtcta 240
aaatacttcg aagtacagaa attaaatgct ttagccata aacatatccc tcatctattg 300
tgttgctagg gaacacatga gcaaaatcta tcattcgac ttctacttca gcaatctctt 360
ggcaaccagt gggaagatgg tagaaaactt tntccagttg ggaaagtaca tttccattta 420
aatgttctctg tgacatgctt ttccaccat tgtcttgctc cagattttca actttcaatg 480
aagtctgac 489

<210> 148
<211> 372
<212> DNA
<213> Homo sapiens

<400> 148
tttcaccttt taattttata ttatttgcgt catacatttc ctgtaacgga agtggttaatt 60
ttactgtact ttttgggtacc ttttgggaat ctaatgtatt gtaagggtatt ttacacgtgt 120
cctgattttg ccacaacctg gatattgaag ctatccaagc ttttgaaata aaatttaaaa 180
accccccaagc ctgggtgagt gtgggatatg ctgtgtgaga cctcttgctc aggggtcgagg 240
gaggcgnggg gggngnnnc cnnnnccct nnacttttnc cttcttctgc nncangctct 300
tccagcttga ggcacagttg gggggtatcc ttttaaggact gccttgccca gggctgggcc 360
cccccttcaa ga 372

<210> 149
<211> 491
<212> DNA
<213> Homo sapiens

<400> 149
gttttttaaaa caagcaaatt ttattaaagg aaaattttgc aggtttaagg tttgcagggtg 60
aaatttttga ggtgaaaagg tttacttttc accagtctgt tctggcatgc ttctaattgat 120
gtcagagtca cctggatcaa tgatagccag tgtgcacact ctgtagtatt ttccgcatgc 180
tgtgcccagt tcaatattat tgccactgta gtgatggaca ccagttttag ccaacatagc 240
atagtactct atttcagatt tcctcaaagc tgggcagttg tttagcgagaa tgaccaattt 300
cgctttgect tgtctgatca tcttcagagt ctgcttgtag cccaggacgt acttcccact 360
tttcataacg agttggagcc tagagttgat cgactccagc gactttttct tcttctttgc 420
ggccaccatc ttcctgcctt aggagcggga cggcccccaa cctagaagag acagagaaca 480
ggacaggaat t 491

<210> 150
<211> 455
<212> DNA
<213> Homo sapiens

<400> 150
catgtttaat ttattattat tgcaaaagaa cagtttttct catgattagt gaaatagaaa 60
actcacaata tacttaagag tctgcaacaa gttacataga atcagaggca cttcaaaggc 120
ttaaaaagac gtttacaact taaatgcatt ttttaagaaca aaaactgatt tttctttaaa 180
cctctactcg taccttcaaa ttgcaagaaa ttaacaaata cagtggccaa aggaatctgc 240
agcaacttct taaaatactg ttaacatctt tgggtttgct gaggcttgc agtaacttac 300
atcaaactct cccaaaagaa gatctgatta gatagatatg actaaacggt tttgtagtaa 360
taatccaatt ttacacatta atttgctgtt gcaaactctg ccaaagctac aggtaatgaa 420
aaataaagca agtgtaaaat ggatagtcgt acact 455

<210> 151
<211> 465
<212> DNA
<213> Homo sapiens

<400> 151
agcttgctga cgctgtcgca ggggtggatc ctgagctgcc gaagccgccc tcctgctctc 60
ccgcgtgggc ttctctaatt ccattgtttt ttttagattc tctcgggcct agccgtcctt 120
ggaaccggat attcgggctg ggcgggttcg cggcctgggc ctaggggctt aacagtagca 180
acagaagcgg cggcggcggc agcagcagca gcagcagcag caatctcttc ccgaacacga 240
gcaccacagg cgcccgaagg ccggaacagg cgttttagaga aaatggcaga cgatattgat 300
attgaagcaa tgcttgaggc tctttacaag aagggtgagaa aaaacatgtc ggtgagggtt 360
atatatttct taatttagca ttattcacga aactactgct gaaatgtaaa ctaaccttcc 420
cggagccctc ttgatttatc ctattagaga tgccttacct tgtac 465

<210> 152
<211> 386
<212> DNA
<213> Homo sapiens

<400> 152
tcctttcttag tttttctccc aaatgggttc tcagcccccag tgctggggccc tgaaataggc 60
ccagctccct gtatagttcc cacagagctg gccacaccat aagtcagggg caaactggaa 120
ctgtgggaag gagctgcagc ctgtacttcc ccttcagtta gagcctgaag ctggaggagc 180
ttcttttagca agtaccttct ttcttctttt gctttaagaa atttttcctc aagacgagca 240
atttcatcac aaatagcagc attttcaaac accgtggcct tggccgcttt gcgcagccgc 300
aggtaacttca gccggtactt ctcattctgg ctcttcttcg ggagcttttt catcctggcc 360
ttgctggact gcancggagc ccgcgg 386

<210> 153
<211> 601
<212> DNA
<213> Homo sapiens

<400> 153
tttttttatt ggcttggttt ttatttctat gcttataaaa aaaatatgaa gcttctttgt 60
gtggactgaa ggggtgttag cctgtggatg ttggtcttcg gtgcctgtac cccagtggct 120
gtttacattc caggccctcg ctaaaataaag caggctccac tgccagctgt ctgtacactt 180
tttcttgggg gaagagttct tgtcttcagt ttactgcagt agggttcctg gctctgttac 240
atgctcatgt gttccggaag aacatatgaa atatcatccc acggatgacg atacagcccc 300
tgcttcagcc tcttctgac aagatagtgt ccaatgaacc ccatactcct tcccagcaca 360
aagatgccat tgagggtccc aatgtcaata tattcatcag ctctctcccg agtaaaggac 420
ccacagtttc taagcatgtc taaaaatgcg actccgatga gaccatctac attcaggata 480
agatttggtt tcttcgaggt gtaattcttct ctacttccag tgcataaaatc gagcagagag 540
tggccangga gtgctgcctt gcgtaatctt ttgagatctg cactcgcagt ttctgggtgt 600
t 601

<210> 154
<211> 340

<212> DNA
<213> Homo sapiens

<400> 154
gcgttttcat actctttatt gccaacgggt taaaatgggt aacataaaaa aaaaagacat 60
tttgataata aatactgtct tttgggtgtt aataaataaa aagtttatta acaaggaatg 120
cacttttcca gccacaagta tcttcaaaaa ttaatgaaaa aaaattatat atggccatag 180
ttcacagtta cgcagccaaa agctgtctcca attacagcct ttaaacaaca tgggagcttc 240
ctcccttctc cctccctctc aggaagtata ttcacagttc caaagtcctc tgggtgaaat 300
gctctcaaca gagagaatth aagaatcaat gcacctttct 340

<210> 155
<211> 759
<212> DNA
<213> Homo sapiens

<400> 155
cctgggtccta ctttcccttc ctcactcttc tttttctcac tgtctgactt ttctcactg 60
tcggacttct gttgcttttt gggttcagac ttctcatctt tctttaagtc tgcttttggg 120
cctttgtatt catgtgtgta cagaggcctg aaggagtcaa tgaagccac atcagcagtc 180
agatttggca agaaccaaaa gtggtgcctt cctccagtta tgagccaaat gatgagaaat 240
agaatgcacg gagcaacagc aaggagaaga atactggcta caaaacagcc tgcacccaca 300
ctgaggtaat aaacacctac tctcatttct cttggccaaa gggggaagag ggtggccgct 360
attactgcaa tcacaagaat taatcccatg acaaattgtt taaagtgaac tgggtcatag 420
atccatacat acacctcatt tccatccaga aaaacctgat catcatgttg ctaagtttga 480
attttttcta gtttccttct tttntagagt tccctgagtt tcctcctttt tgattcttct 540
tttcaccatc tttnttttct ctttttcttt ttttggctct catcccttat atttntctct 600
tgctctttta tctctcttct tcactntcag ctttccctta tctttttctt tccatgctt 660
atcatattca ttccatactt tagggggctg tgaaaaactg ctctaaaaac tctgtgagtc 720
accacaannt cccctgtgaa taagtntctt cttctgctt 759

<210> 156
<211> 703
<212> DNA
<213> Homo sapiens

<400> 156
tttttgagaa tacacagggg gctttattat aaaaaatggc ggggtggggg gcggcaagca 60
gcggatggca tcaaagaggc gagggtaggt catgctggca acaggaagca acttcttagc 120
cagggccggg gggcggtgt ctggctggaa tctccccttg gtacatggag ggtgccagcc 180
ggctggacct gcagaccag gaagcgagat gggacgcta gggagccggg ccccttcca 240
caagcacctt ctcatacttc ccatgcccgg tggccacaaa cttatacttc ttcccagatg 300
gggtgctctt aattgttgat gaggtcttgg agcctccctt ctgctcccag aggtctttct 360
tgctcatgtc tccagccaca atatccttgc aggacggagt cttggccgca gactgagcct 420
gtacctcacc cgtctcccac cgactcttgg tactggccac agccatgctg ggcagctcta 480
tggaggcctg gcnnggctag cttgggggtc ggcccagcgt ctogaatggc ctgggtgtatt 540
gttccagcca ctgatcaatc ctggagatgg gcaagtcttg cctggatttc ttcacactgg 600
tactcttctt tattggagcg tttaggggac tctctctgtc natgaagtgt gtgtnggctc 660
caggggaagcg agctctggtc gatgtccctt caaaaccaag ggg 703

<210> 157
<211> 757
<212> DNA
<213> Homo sapiens

<400> 157
cttgggtgtgt ccgcttttaga aggtcaaact tctcgtgaag ctctttctct gcctccttaa 60
gttcagcttc tttctcttc actctcataa caaacatttg tctcatttct tcttctttct 120
tctcgagttc tcccaggaat tcattccttt ttgcttcata tgtctcctga agactgaagg 180
gtttgctgtc agggctcagtg tccttgaacc ccatctcttc aagcttacag cgtcggta 240
attcatagtg gcgggtgtga gtctgctctc gcaagtcctc catgttcacg cggatcagca 300
tctctcgaag tttcacaaaa tcgcaatgat tttcattctc aacctgcacc acaccccagg 360
gggtactgct ggcttttgcc atcttgttgc caatcttcac ctcttcgggtg ctgccaacca 420
ctgcaaatgg gagatggaca ctcattgttg cgttaatctc tgccacogtt tcttcatcag 480

tgggaaactg	atatatctgg	acccatttgc	tgaccagttc	actcatgac	ttactcttga	540
atntgtgcag	ttcattcttg	gcaatgtgtc	agcttttgca	aatattggga	atgatgtcac	600
cttactgtcc	agctttttca	tggtgaccag	atcccaggga	ccttagtgan	tgtagtgang	660
gggcaataag	tagaggcaag	gcatgaatcc	tctgtgtcatg	gtagtttgag	aagagaccgt	720
taaatctcat	tttntctctg	ngtangccct	cgaactg			757

<210> 158
 <211> 455
 <212> DNA
 <213> Homo sapiens

<400> 158						
ggaagtaaaa	aaacctgttt	caggcttcat	ttattgctac	ataatgacta	cttcaagggt	60
catctggccc	gtcgtcagtc	actcttagaa	gtggtaata	cagtggata	gtttggaagg	120
aaaggaggaa	aaaaataatg	cattgtgata	caaaaatatt	acctacatat	aaattattaa	180
agattttataa	aacattcaga	atatgttctt	gctataaaaa	caatatactt	aaatatagaa	240
gcaaaaagtc	ctgaagcacc	cgcaattatt	ttaatatoca	tttaatcagg	gaaaactata	300
tatgtggata	tataatacat	acatatgtaa	taatttgaga	agaaaaaagg	caaaattctg	360
attataatcc	aaaaagagtt	tatctaatta	tggaggtagg	tctccactcc	aattatacaa	420
ataagttatc	agtttttattc	aaagaattat	aagtc			455

<210> 159
 <211> 486
 <212> DNA
 <213> Homo sapiens

<400> 159						
tggttttctt	cagccgcagt	cttgtctgct	ctgaagaaaa	ttcttgcact	gctcagtgag	60
aaatacagca	attcaaattc	ctgtagatag	acatccagtc	gcttctgagt	gagattcatg	120
gttttgtaaga	gtttttcatc	ttgactggct	gactgtacat	tctgttgctt	agcaactgct	180
cttatctcct	tcagggtattt	ctctctaaca	gactggaacc	agtgaagtga	atcaaactcc	240
cgatactgat	ccaaaagctt	tagaatgtaa	gccacacca	tggaagacc	atcatcagta	300
aaggcagctc	caatttttatt	tttttttattt	aatttttctt	tgcaactaat	ggaatgctct	360
acaaagttga	gggtcagagg	gggaacaatt	atatagaaat	ttcggagatg	tatattcttt	420
ggccttcgaa	attctggagc	aaaaacgtct	acaagcattt	tgaaatattc	tgtgccttcg	480
gcagaa						486

<210> 160
 <211> 638
 <212> DNA
 <213> Homo sapiens

<400> 160						
ggggctcctc	ttcactttct	ttatcttcat	catctgaaga	ctcttccttg	tttttctttt	60
catcttcatc	actactagat	tcacttgaca	gaatttcagg	acatttggtt	cgcttagcct	120
tacttgccat	tccagaactg	ttccggtcct	ttttactgcc	tttgctacaa	gacttttttaa	180
atttcggcaa	tggttttgcca	gaacgctttg	gatgcattaa	gaaattcaag	atcctcttca	240
ctagtccact	atttacacct	gatctctcca	aatcaagaac	ctcacagatg	ctctttaaca	300
tggcattttct	aaactttttc	aacattttctt	ccttcttttt	atattggaca	cttctttttt	360
caaatggaaa	gccactgaac	tgaccacacat	tcttcttttaa	tgaggacaca	cagcctggcc	420
tggttgtaaag	cactttgtgt	acatatctaa	gatcatccgt	tttcttctta	cttagaaaaa	480
catgtatgct	ctcaatttca	caaagcgtct	gccgctttcc	ttgctgcatt	gtaaattgct	540
ctctctgcag	ggagagacgt	gcattggcac	ctctctactt	tttcttttcc	ctcttgccct	600
ccgaaaagaa	cctttttttt	tcttctctct	cttctctc			638

<210> 161
 <211> 845
 <212> DNA
 <213> Homo sapiens

<400> 161						
gaattcggca	cgagcctgtc	tggaggagtg	gtagtgagtg	ctatattctt	cattttgtct	60
gccaatatct	tatcatctcc	ctctaagaga	ggacaaaaag	gtacccttat	tggatattct	120

cctgaaggaa	cacctcttta	taacttcatg	ggtgatgctt	ttcagcatag	ctctcaatcg	180
atccctaggt	ttattaagga	atcactaaaa	caaattcttg	aggagagtga	ctctaggcag	240
atcttttact	tcttggtgctt	gaatctgctt	tttacctttg	tggaattatt	ctatggcggtg	300
ctgaccaata	gtctgggcct	gatctcggat	ggattccaca	tgctttttga	ctgctctgct	360
tnagtcatgg	gacttttttg	tgccctgatg	agtagggtga	aagccactcg	gattttcncc	420
aagggtacgg	ccgaataaaa	attctgtctg	gatttatnaa	tgggcctttt	tccaaanagn	480
aaanagcgg	ttttgggggt	angggagnca	agnggcaaga	tggattggan	cccccaggaa	540
ttaaggcnnc	ccacannnga	aacacccagn	nccanttggn	ggngnrrnaa	nnaaacctn	600
antgggacn	gggnccttna	nccaaggccc	aagncangcc	caggggggct	ccncaagggg	660
agnngcanc	aaanngggnc	aaaggncctt	caaacncann	ggnggggnca	agggaccng	720
ggggngggc	aacncgggg	tnnggggggg	gngnaaaacn	caaaaanngg	gggnatccca	780
aaaggttggg	aaaaacntg	gnaaaanggg	ggnnccgnnc	aaaggccnaa	aaanngtgtg	840
ggggc						845

<210> 162
 <211> 496
 <212> DNA
 <213> Homo sapiens

<400> 162						
tgtaatacct	cctcatcttt	tcttctttaca	cagtgtctga	gaacatttac	attatagata	60
agtagtacat	ggtggataac	ttctactttt	aggaggacta	ctctcttctg	acagtcctag	120
actggtcttc	tacactaaga	caccatgaag	gagtatgtgc	tcctattatt	cctggctttg	180
tgctctgcca	aacccttctt	tagcccttca	cacatcgcac	tgaagaatat	gatgctgaag	240
gatatggaag	acacagatga	tgatgtgat	gatgatgatg	atgatgatga	tgatgatgat	300
gaggacaact	ctctttttcc	aacaagagag	ccaagaagcc	atcttttttc	catttgatct	360
gtttccaatg	tgtccatttg	gatgtcagtg	ctattcacga	gttgtagatt	gctcagattt	420
aggtttgacc	tcagtcccaa	ccaacattcc	atcttgatact	cgaatgcttg	atcttcaaaa	480
caataaaaatt	aaggaa					496

<210> 163
 <211> 491
 <212> DNA
 <213> Homo sapiens

<400> 163						
taaggattaa	aaacgatttt	aactatacac	atatgggtcac	aattttgctt	taaaaagatt	60
ggtgggaaat	gtacataagg	ccgcttgtaa	atgtacatcg	tggtactggt	atgtcttatg	120
tccagaggaa	aaaatgttat	catcacagatt	tgctcttact	tgggagtagg	ctattcaaaa	180
atacagtact	cttctgtaca	aagaaaaaag	tcacatcaca	tttaataaga	tgaaaaaagc	240
attggcctcc	atggtaacca	aatatctcag	tccaataactt	tctattatgc	acaataccct	300
gacttcaatt	gaaagtgatc	caaattctag	caggtccata	ttaacagtca	acaactatgt	360
tataaaaaca	aatgatctca	caataataaaa	aagaaaagctg	gttcataactt	ctgaaaccat	420
ataaagataa	aaaattttta	aaaaatcact	ctcgatttgg	agaaataaat	ttacattata	480
caacactata	t					491

<210> 164
 <211> 457
 <212> DNA
 <213> Homo sapiens

<400> 164						
tttttctgtt	tatgacactt	tattgatgct	gggggggtgg	ggaggagacc	tggagaaata	60
tggtggggga	agagtcceca	ggtggggaca	gggaaagtgt	tgaagcctgg	ccactactgg	120
gcagggaaga	cagagttgcc	actgtatgca	caggggatga	gcagctgccg	gtactccagg	180
ggcaggtgcc	gctccactag	cacgtgcagt	gagacttgg	cagtgaccag	gccctgccg	240
cgcacagca	gctccaggtc	ctctggcttc	acagtcctgc	ggccagcatg	agcagcaaat	300
acctccagat	catcacaaa	atgctggaaa	tatttatcta	ggcacttctc	caccatctca	360
agagccttcc	tctccatggg	catcttggca	tagaagctaa	agagtttcac	atagtggctc	420
agtccagcct	tgtggggatc	ttgccggngc	ctgnnggc			457

<210> 165
 <211> 477
 <212> DNA

<213> Homo sapiens

<400> 165

tttttttttt	tttttagtttt	cttcccaaat	ggttcctcag	ccccagtgtt	ggggccctgaa	60
ataggccccag	ctccctgtat	agttcccaca	gagctggcca	caccataagt	caggggcaaa	120
ctggaactgt	gggaaggagc	tgcagcctgt	acttccccct	cagtttagagc	ctgaagctgg	180
aggagctttct	ttagcaagta	ccttctttct	tcttttgctt	taagaaattt	ttcctcaaga	240
cgagcaattt	catcacaaat	agcagcattt	tcaaacaccg	tggccttggc	cgctttgcgc	300
agcgcaggt	acttcagccg	gtactttctca	ttctggctct	tcttcgggag	ctttttcatc	360
ctggccttgc	tggactgcag	cggagcccgc	ggcgagggaag	cgaggccgtc	cagcaggctc	420
atggtccagc	cccgtacgg	gggccccagg	acgctgccgg	catcggatcc	taagtcg	477

<210> 166

<211> 468

<212> DNA

<213> Homo sapiens

<400> 166

gagaagacga	cagaaggggc	tactgcggca	gaaccagag	gccctgaacc	gtgccatgcg	60
ggagctggac	cgcgagcgac	agaaactaga	gacccaggag	aagaaaatca	ttgcagacat	120
taagaagatg	gccaaagcaag	gccagatgga	tgctgttcgc	atcatggcaa	aagacttgg	180
gcgcacccgg	cgctatgtgc	gcaagtttgt	attgatgcgg	gccaacatcc	aggctgtgtc	240
cctcaagatc	cagacactca	agtccaacaa	ctcgatggca	caagccatga	aggggtgtcac	300
caaggccatg	ggcaccatga	acagacagct	gaagtgtccc	cagatccaga	agatcatgat	360
ggagtttgag	cggcaggcag	agatcatgga	tatgaaggag	gagatgatga	atgatgccat	420
tgatgatgcc	atgggtgatg	aggaagatga	agaggagagt	gatgtctg		468

<210> 167

<211> 399

<212> DNA

<213> Homo sapiens

<400> 167

tttttttttt	ttaggtttat	aatcagcatc	atcctcatct	cgaggctctt	ttaatggctt	60
tatatcctct	ttaggaggaa	caaaatagcc	atcatcttca	ggttcatctt	taatttgttg	120
tggactagag	aagccatttt	ccttctcctt	ctttattttt	gcacccccag	aggctcgaac	180
cttttctctt	tttcgttttt	ccttgctctt	gtctttatgt	ttgtctttat	gcttttctga	240
gcttccatct	ttgtgttttg	tcttctcctt	ctctttgtgt	ttcttttcag	aatctttatg	300
ttcactgttg	ctatgcttgg	acttttcccg	gnccttctcc	tttctgggtt	cttttgngcc	360
gnggtctcga	tcctttgggt	atttttgtgt	tatgagaat			399

<210> 168

<211> 557

<212> DNA

<213> Homo sapiens

<400> 168

gagcccaagc	gcctttctccg	caccaggga	gccccaccca	ccagaagcca	agatgtccag	60
caagcggggc	aaagccaaga	ccaccaagaa	gcggccacag	cgggccacat	ccaatgtctt	120
cgcaatgttt	gaccagtccc	agatccagga	gtttaaggag	gctttcaaca	tgattgacca	180
gaaccgtgat	ggcttcattg	acaaggagga	cctgcacgac	atgctggcct	cgctggggaa	240
gaacccca	gacgaatacc	tggagggcat	gatgagcgag	gccccggggc	ccatcaactt	300
caccatgttc	ctcaccatgt	ttggggagaa	gctgaacggc	acggaccccc	aggatgtgat	360
tgcgaacgcc	tttgctgtgt	tcgacgagga	agcctcaggt	ttcatccatg	aggaccacct	420
ccgggagctg	ctcaccacca	tgggtgaccg	cttcacagat	gaggaagtgg	acgagatgta	480
ccgggaggca	cccattgata	agaaaggcaa	cttcaactac	gtggagtcca	cccgcacctt	540
caaacatggc	gccaaagg					557

<210> 169

<211> 564

<212> DNA

<213> Homo sapiens

<400> 169

acgacttggc	catgctgaaa	cagatgaaca	attacagaat	attatatcta	aattccttcc	60
tcctgttttg	ctcaaaactct	ctagcaccca	agaaggagta	cgtaaaaagg	taatggaact	120
gctgggtccat	ctgaataaac	gtataaaaaag	ccgccccaaa	atacaacttc	cagtagagac	180
actgttgggt	cagtaccagg	accctgctgc	agtttccctt	gtcacaaatt	ttactataat	240
ttatgttaaaa	atggggctatc	ctcgccctacc	agtggaaaaa	caatgtgaac	tggcccctac	300
gcttcttact	gccatggaag	ggaagcctca	gccacagcag	gatagcttaa	tgcattcttt	360
aataccaacc	cttttttcaca	tgaaataccc	tgttgaatca	tcaaaatcag	cttctccatt	420
taatcttgct	gagaaaccaa	agactgtgca	gctgcttttg	gacttcatgc	tagatgtcct	480
tctgatgcct	tatggttacg	tgtaaatga	atcccagagt	cgccaaaatt	catcttcagc	540
acagggttct	tctttcaaca	gtgg				564

<210> 170
 <211> 457
 <212> DNA
 <213> Homo sapiens

<400> 170						
gattgtatgg	tgggggtgggtg	acctattttt	acaaattata	cctaattgagt	aaaattagtg	60
taaaagtgata	acatgcttct	acctgtattt	ctagtgaacc	tttagcgga	ggatattata	120
cctgggtattt	atgatgcagt	atataagtg	tgaacaataa	ctgacagtat	tgtgcttgct	180
gtacatgtct	gggtcttttga	aacagatttt	agtaagcatt	ttccagaggt	aaaactgtgt	240
ccttattcta	atttttattcc	tagggcaaag	tagacagggg	ttatttcctt	gaatctattt	300
ccaaattaat	atttttttct	ttgggtattt	tacactttaa	ggccatttgg	tgcaatttag	360
aaagtgttgg	cctcccttcc	gctagccaca	ttcanaatta	acttccaaaa	cctcaggaac	420
agtacaaaga	attgaaaccc	tcaatatggc	agcacag			457

<210> 171
 <211> 527
 <212> DNA
 <213> Homo sapiens

<400> 171						
tttttttttt	gatggatact	aaggaggtat	tttactgaaa	aaaatagaaa	actacatttt	60
tacacgaaat	aaacttatgt	ctgcaatact	cagccttaaa	ttcacccttc	acttcagaag	120
aggtcccagg	ggcaggaata	acacgcacag	attgtttgtt	cacgacttcc	agccggtcca	180
ccagacctct	ggccaggtaa	tactgtacaa	agtgcctcca	cgtgatttct	cttccaggat	240
ctcgaataa	gaggtagaaa	aatccccatg	caacgccttc	ccccaaaagg	gccagactgc	300
ggaaatcctc	gtcatcccag	gggaagtccc	cccttctgca	tccgcctcca	ccaggcaacg	360
ttatcttgc	tcctctctct	cctgcctccg	tctctccag	actcagcatt	ctctagtcca	420
ccagtctctt	tgggtgggtt	tgaacacagc	caccaggaaa	ataacgtcgg	tcttgcctgc	480
agagtcagct	tctgaacgtg	gatccccctg	aagcactgga	acaggag		527

<210> 172
 <211> 546
 <212> DNA
 <213> Homo sapiens

<400> 172						
cggcacgagg	gacaacgcag	cctgataaac	aagtggacga	cttttcttaa	ggccagactg	60
atttgcctca	ttcctggaag	tgatggggca	gatacttact	ttgatgagct	tcaagatatt	120
tattttactcc	ccacaagaga	tgaaagaaat	cctgtagtat	atggagtctt	tactacaacc	180
agctccatct	tcaaaggctc	tgtgttttgt	gtgtatagca	tggctgacat	cagagcagtt	240
tttaattggc	catatgctca	taaggaaaagt	gcagaccatc	gttgggtgca	gtatgatggg	300
agaattcctt	atccacggcc	tgggtacatgt	ccaagcaaaa	cctatgacct	actgattaag	360
tccaccggag	attttccaga	tgatgtcatt	agtttcaata	agcggcactc	tgtgatgtat	420
aagtccggtat	accaggttgc	aggaggacca	acgttcaaga	gaatcaatgt	ggattacaga	480
ctgacacaga	tagtggtgga	tcattgtcatt	gcagaagatg	gccagtacga	tgtaattgtt	540
cttggga						546

<210> 173
 <211> 710
 <212> DNA
 <213> Homo sapiens

<400> 173
 ctctttcttct atctgggctt tcttttgagc tcttctttgt ttattacgta gcttcttttag 60
 ctctttgtca gacatgtttg ctgtatcagc ttcgtgttct ttattctcat ctgtaagggg 120
 gttgtcatga agcttcaaat agatctctat agcaattctt gctgccttga agtaaaatgg 180
 atgctgtcga agtacatctt ctagtctttaa taagtccaca tatgatctaa gggtaatctt 240
 cctcatcacag tatgtatgaa agtcaaaactg gtcacagtg atttctataa aatgtctctc 300
 aatctcatga catttcttaa gtgcttcacc aaattttattc attgctttat aagcctgggc 360
 acattctgtt tggaaaccaca tgcactgcat ttcattcaaa ttctctaccg ctgatgttcc 420
 ttcccttgta aactttgagc acatttcttc agcttcttta atcagggttg ctttttagcat 480
 gtattttgca catttgaggt tgataaatct gtctgctgtg tccaaggcct gngcctcatc 540
 catccacctt gcagcttctt taatatcttc agcatgctta tagatttttag ctntcacgag 600
 aaagangtct attaatgtag tgtactntca atagcagtat ttatgtactc canagcanta 660
 gatggctgac caattttgtc ataatggtgt gccaaagtagt acttgacca 710

<210> 174
 <211> 409
 <212> DNA
 <213> Homo sapiens

<400> 174
 ggcacgagca ttactacatg tccacaggaa gtacaaaagc catcttcatt tgaacgtaaa 60
 tacaataatc ctgaaattct tagcaccaag tattactttt aaaagtaaaag acaaccgagt 120
 gctctcccca catattgttg acttctctct actcacactg catgtcattt gagatttttaa 180
 aaagttagct gccacagttt tggaaaatgc cagtgtttta aaataattgt gttaaagaat 240
 caaaaagttta gcgtaacaga ttttgagtac ttcaaaccat tcaatgttac aaagaaaagt 300
 gaaaatacca ttctttgggt tagattagct gttcccttta catataattt acattccgat 360
 ggctttttga aaacttttaa aatgttgaaa ctactagac aaaacaaaa 409

<210> 175
 <211> 410
 <212> DNA
 <213> Homo sapiens

<400> 175
 ggcacgagct ttgcagggaa tgaatactgg atctactcag ccagcaccct ggagcggagg 60
 taccccaagc cactgaccag cctgggactg cccctctgat tccagcgagt ggatgccgcc 120
 ttttaactgga gcaaaaaacaa gaagacatac atctttgtct gagacaaaatt ctggagatac 180
 aatgaggtga agaagaaaaat ggatcctggc ttccccaagc tcatcgaga tgcctggaat 240
 gccatcccccg ataacctgga tgccgtcgtg gacctgcagg gcggcggtca cagctacttc 300
 ttcaagggtg cctattacct gaagctggag aacccaaagtc tgaagagcgt gaagtttgga 360
 agcatcaaat ccgactggct aggtctgtga gctggccctg gctcccacag 410

<210> 176
 <211> 473
 <212> DNA
 <213> Homo sapiens

<400> 176
 tttttttttt ttttttttac aaaggaaaac aaagctactt ttggtttttg caacattaaa 60
 aaagaaagaa atataaaaag caatgtggca ttgggtcccta ttcattaaaa aaaaagggtg 120
 cttgggcacg acacaatcag aattagtttg ttttctaaaa ttcagagtat ctgggatttt 180
 aaaagtagca ctttttaaaa agttcaacaa gtcacataac acttaaaaaca tcaaaaaagc 240
 tttctgataa aaagctcagc ttttaaatca cgttttgttt ctgcaaatct gggagacaaa 300
 ttgagttctt actggaatgt ggcctatcgc tgggttgacaa atctgaaatg gaatgtctcc 360
 aaatggcagt gcctcccttt ccgcccctcc taggaccaca ccaataacca gctcccaagc 420
 acaagttctt gctcccattt tttctgtagg ggtgggggtg ggaccttcag gct 473

<210> 177
 <211> 423
 <212> DNA
 <213> Homo sapiens

<400> 177
 tttttttttt ttttttttta caaagctctc tgtaaatatt ttattttcca tatttttagag 60

tcagaaagaa	gcgcttggtg	ataaaaaataa	tagagaatta	ttttcttcaa	gcccgcctctg	120
cgctgcgcgc	gcctccccgc	gccccgggccc	acggctgagt	gcgcggcgctc	agaggcccca	180
agtccatctc	actatttaca	gatatgttac	aggccgggat	ggtcacagag	gaaagcccag	240
ctctcagcat	ggccccacgt	ggtgaggagc	ccccaggctc	ctcccggctg	tctcggacag	300
agactgagaa	gcctgcccgc	tcccgtgggg	gcctaggctg	cggcggggctc	cacggggggg	360
caggagtggg	ccgtgatgtc	gctgtgcttg	tacgccgcct	cgtccaggctc	cagcagcctc	420
cgg						423

<210> 178
 <211> 304
 <212> DNA
 <213> Homo sapiens

<400> 178						
tcagggttcaa	gtgctggatt	gtgtcatgtg	accatcccaa	aactcagagc	accctatggc	60
cgtcttttgc	ctctgtcaca	taacttgaaa	actgcctgat	ggcctttttg	cagtggttcc	120
ctccaggaag	ccttgatctc	agttgaagaa	gttcttttct	ggcattccaa	tgcccctgtc	180
agctccatac	tcctcagaca	cccttaacaa	aggctgtcat	gcacacaatg	tgacaaatac	240
acaaaataaa	tgataattac	actaataatg	atatgttcag	aggggcactg	gccagggtcca	300
caca						304

<210> 179
 <211> 541
 <212> DNA
 <213> Homo sapiens

<400> 179						
ggggcacaaga	aaaatgtgaa	ggattcgaac	tgcacttctg	gagaaaaata	tgtcgttaact	60
gcaagtgtgg	ccaagaagag	catgatgtcc	tcttgagcaa	tgaagaggat	cgaaaagtgg	120
gaaaactttt	tgaagacacc	aagtatacca	ctctgattgc	aaaactaaag	tcagatggaa	180
ttcccattga	taaacgcaat	gttatgatata	tgacgaatcc	agttgctgcc	aagaagaatg	240
tctccatcaa	tacagttacc	tatgagtggg	ctcctcctgt	ccagaatcaa	gcattggcca	300
ggcagtagcat	gcagatgcta	cccaaggaaa	agcagccagt	agcaggctca	gagggggcac	360
agtaccggaa	gaagcagctg	gcgaagcagc	tccctgcaca	tgaccaggac	ccttcaaagt	420
gccatgagtt	gtctcccaga	gaggtgaagg	agatggagca	gtttgtgaag	aaatataaga	480
gcgaagctct	gggagtagga	gatgtcaaac	ttccctgtga	gatggatgcc	caaggcccca	540
a						541

<210> 180
 <211> 685
 <212> DNA
 <213> Homo sapiens

<400> 180						
tcgtggaaca	aaagtattcc	tacacctgaa	agaagaccaa	actgagtact	tggaggaacg	60
aagaataaaag	gagatttgtga	agaaacattc	tcagttttatt	ggatatccca	ttactctttt	120
tgtggagaag	gaacgtgata	aagaagtaag	cgatgatgag	gctgaagaaa	aggaagacaa	180
agaagaagaa	aaagaaaaag	aagagaaaaga	gtcgggaagac	aaacctgaaa	ttgaagatgt	240
tggtttctgat	gaggaagaag	aaaagaagga	tggtgacaag	aagaagaaga	agaagattaa	300
ggaaaagtac	atcgatcaag	aagagctcaa	caaaacaaaag	cccatctgga	ccagaaatcc	360
cgacgatatt	actaatgagg	agtagcgaga	attctataag	agcttgacca	atgactggga	420
agatcacttg	gcagtgaagc	atttttcagt	tgaaggacag	ttggaattca	gagcccttct	480
atttgtccca	cgacgtgctc	cttttgatct	gtttgaaaac	agaaagaaaa	agaacaatat	540
caaattgtat	gtacgcagag	ttttcatcat	ggataactgt	gaggagctaa	tcctgaata	600
tctgaacttc	attagagggg	tggtagactc	agaggatctc	cctctaataa	tatcccgtga	660
gatgttgcaa	caaagcaaaa	ttttg				685

<210> 181
 <211> 207
 <212> DNA
 <213> Homo sapiens

<400> 181

ttctcagagg	aacgagaatg	aatatgactc	aagccccgggt	tctgggtggct	gcagtgggtgg	60
ggttgggtggc	tgctcctgctc	tacgcctcca	tccacaagat	tgaggagggc	catctggctg	120
tgtaactacag	gggaggagct	ttactaacta	gccccagtgg	accaggctat	catatcatgc	180
tgccctttcat	tactacgntt	cagaatc				207

<210> 182
 <211> 530
 <212> DNA
 <213> Homo sapiens

<400> 182						
aaatcattct	ggttcacgga	cacctccagt	agcactcaac	agttccagaa	tgagctgctt	60
cagtcgtcct	agcatgtccc	caacacctct	tgatcgctgc	agatcacctg	gaatgcttga	120
accccttggc	agctctagaa	cacctatgtc	tgccctgcag	caagccggcg	gctccatgat	180
ggatgggtcca	ggtccccgaa	tacctgacca	ccagagaaca	tctgtgccag	aaaatcatgc	240
tcagtcacagg	attgcacttg	ccctgacagc	tatcagtctt	ggcaccgctc	ggcctcctcc	300
gtccatgtct	gctgctggcc	ttgctgcaag	aatgtcccag	gttccagccc	cgggtgctct	360
catgagtctc	agaaccgcac	cagcagccaa	ccttgccagc	aggattcctg	cagcctctgc	420
ggcagccatg	aacctagcca	gcgccaggac	acctgccatt	ccaacagcag	tgaacctggc	480
tgactctcga	acgccagctg	cagcagcggc	catgaacttg	gccagcccca		530

<210> 183
 <211> 526
 <212> DNA
 <213> Homo sapiens

<400> 183						
tgtagatcaa	ctgaggcatc	tacttgtgag	taatgtggga	ggagatggag	aagagattga	60
aagattcttt	aaattacatc	aggaagacca	ggcttgtgca	acttgcctta	ttcttgcttg	120
ctccactgct	gcctgtgata	gagaagtatc	tgccctgggt	actcgggctt	tccttaggta	180
ttggtggtgaa	gcacagatga	gatttccaac	cactcttccg	cctccaagta	atgttgggtcc	240
catcttgggg	tctcctgtct	attctagttc	tcctgttcc	agtggtagtc	cctatccaaa	300
tccatccttt	ttgggaacac	cgtctcatgg	tatacagcct	cctgccatgt	caactccagt	360
gtgtgctctg	ggaaaaccag	caactcaggc	cacaaatatg	agttgtgtga	ctggaccaga	420
gattgtgtac	tctggaaaac	acaatgggat	ttgcatttac	ttttctcgga	tcatgggaaa	480
catttgggat	gcaagcttag	ttgtggagag	aatattcaag	agtggc		526

<210> 184
 <211> 612
 <212> DNA
 <213> Homo sapiens

<400> 184						
gaagaagagg	aagaggaggga	ggaggaagag	cagccgcagg	cagcacagcc	tcccaccctg	60
cccgtggagg	agaagaagaa	gattccagat	ccagacagcg	atgacgtctc	tgagggtggac	120
gcgcggcaca	tcattgagaa	tgccaagcaa	gatgtcgatg	atgaatatgg	cgtgtcccag	180
gcccttgcac	gtggccctgca	gtcctactat	gccgtggccc	atgctgtcac	tgagagagtg	240
gacaagcagt	cagcgcttat	ggtcaatggt	gtcctcaaac	agtaccagat	caaagggttg	300
gagtggctgg	tgtccctgta	caacaacaac	ctgaacggca	tcctggccga	cgagatgggc	360
ctggggaaga	ccatccagac	catcgcgctc	atcacgtacc	tcattggagca	caaacgcac	420
aatggggcct	tcctcatcat	cgtgcctctc	tcaacgctgt	ccaactgggc	gtacgagttt	480
gacaagtggg	ccccctccgt	ggtgaagggt	tcctacaagg	gatccccagc	agcaagacgg	540
gcctttgtcc	cccagctccg	gagtgggaa	ttcaacgtct	tgctgacgac	gtacgagtac	600
atcatcaaag	ac					612

<210> 185
 <211> 433
 <212> DNA
 <213> Homo sapiens

<400> 185						
gtttcttcca	gacaaaggaa	tatcaaaaaca	cttcggcaca	agtacaacaa	aggcatggga	60
agatcatgat	aatgttttac	atcacatttt	acagcatttt	attttaatat	gtattttagt	120
aaaacaagga	tgctgagttc	ttgaacactg	cagtcacaaa	ctcaaaactaa	aattttccaaa	180

aaaaggaaaag	aaaacactga	actacttggt	caactgaaca	tctgtaataa	taaatgtaac	240
gaaacctaac	caaataaata	tgccactgag	atcacaactg	aagtgtatgg	tttttagtgt	300
gtgccagaga	cattaaatta	tttaatcagt	ttttgactac	aacccaaagc	aaagcatcct	360
ctctgtttcc	ctgatgattt	attctaaaag	taaccttaaa	aagcagaaaac	ttgctgggta	420
aagagaattt	ctg					433

<210> 186
 <211> 377
 <212> DNA
 <213> Homo sapiens

<400> 186						
ataatgcaag	cccttgcatg	gcaatccaaa	tttattgaac	tactgatgct	aagttataca	60
aaattgcacc	actttaatta	aggcttttag	tttacatttg	gccacctcaa	agtagttgta	120
acattaggtt	gggtcaattta	aatactgtgg	ctccctgttg	gatagacaca	caatctttac	180
atccaaacat	taatgcatac	aaagcaacaa	ggcattgtta	aataaaaacag	caatagttac	240
tgcaaattag	gccttgtgac	caattacata	tgattaaaat	tacttcccac	attcacatcc	300
acagtnactc	gtccaccatt	taacatctca	ccaannacgt	tacacatgtg	aaacaatcac	360
taacaggcaa	aaatact					377

<210> 187
 <211> 413
 <212> DNA
 <213> Homo sapiens

<400> 187						
gctgtagggtc	gaggggaaga	cttagactcc	ttctttatat	tgggtttcct	tgagcctttg	60
gtggctgctt	tggtgtctgt	ggagggcatg	ctgctagcca	agtctacagg	ggtttcactt	120
tctatcttca	ggcctccacg	aggctcttca	gcagctgcct	tctcagcctt	tttgggttgt	180
tttttgccct	cagttcttct	ctgtgttgtg	ctgtcactct	gtgcaggaga	tttctgcctc	240
ccacgcccac	tttctgatcc	cttttggatg	gttttggagt	ctcgtcccgg	agtagcggaa	300
ctcgtttctt	taggtccact	tgtatcagtg	tagctattcc	cagtgccttg	ctctcggcct	360
tcctttttgt	agccttgaga	tgatgggatg	ttactgtcca	ctgaagaggc	ggg	413

<210> 188
 <211> 378
 <212> DNA
 <213> Homo sapiens

<400> 188						
ctgaaaagcc	atcttttgc	tgttccctcat	ccgcctcctt	gcccgcgcga	gtcgcctccg	60
ccgcgcgcct	cctccgcgcg	cgcggactcc	ggcagcttta	tcgccagagt	ccctgaactc	120
tcgctttctt	tttaatcccc	tgcctcggat	caccggcggtg	ccccaccatg	tcagacgcag	180
ccgtagacac	cagctccgaa	atcaccacca	aggacttaaa	ggagaagaag	gaagttgtgg	240
aagaggcaga	aaatggaaga	gacgcccctg	ctaacgggaa	tgctaataag	gaaaatgggg	300
agcaggaggc	tgacaatgag	gtagacgaag	aagaggaaga	aggtggggag	gaagaggagg	360
aggaagaaga	aggtgatg					378

<210> 189
 <211> 545
 <212> DNA
 <213> Homo sapiens

<400> 189						
tctgtcagaa	gttgtagcag	tgttgatatac	tgtttgattt	catggactct	gtttcagact	60
tgaagagcaa	agaaattaaa	agagcaaacac	tgaatgaact	ggttgagtat	gtttcaacta	120
atcgtgggtg	aattgttgaa	tcagcgtatt	ctgatatagt	aaaaatgata	agtgctaaca	180
tcttccgtac	acttccctcca	agtataatc	cagattttga	tccagaagag	gatgaacca	240
cgcttgaggc	ctcttggcct	cacatacagt	tggtatatga	attcttcttg	agatttttgg	300
agagccctga	tttccagcct	agcattgcaa	aacgatacat	tgatcagaaa	tttgtacaac	360
agctccctga	gctttttgat	agtgaagatc	ccagagaacg	tgacttctctg	aagactgttc	420
tgcaccgaat	ttatgggaaa	tttcttggat	taagagcatt	catcagaaaa	caaattaaca	480
acatttttct	caggtttata	tatgaaacag	aacatttcaa	tgggttgctg	aacttcttga	540
atatt						545

<210> 190
<211> 648
<212> DNA
<213> Homo sapiens

<400> 190
gggtgtgcga ttgtgtggga cggctctgggg cagcccagca gcggttgacc ctctgcctgc 60
ggggaaggga gtcgccaggc ggccgtcatg gcggtgtcgg agagccagct caagaaaatg 120
gtgtccaagt acaaatacag agacctaaact gtacgtgaaa ctgtcaatgt tattactcta 180
tacaaagatc tcaaacctgt tttggattca tatgttttta acgatggcag ttccagggaa 240
ctaataaacc tcaactggaac aatccctgtg ccttatagag gtaatacata caatattcca 300
atatgcctat ggctactgga cacataccca tataatcccc ctatctgttt tgttaagcct 360
actagttcaa tgactattaa aacaggaaag catgttgatg caaatgggaa gatatacttt 420
ccttatctac atgaatggaa acaccacag tcagacttgt tggggcttat tcaggtcatg 480
attgtggtat ttggagatga acctccagtc ttctctcgtc ctatttcggc atcctatccg 540
ccataccagg caacggggcc accaaatact tcctacatgn ccagcatgcc aggtggaatc 600
tctccatacc catnncgata cncctccant cccagtgggt acccagct 648

<210> 191
<211> 339
<212> DNA
<213> Homo sapiens

<400> 191
gctgtttaag ctcaggctaa agatgatata aatagaggtg caccatccat cacatctgtc 60
acaccaagag gactgtgcag agatgaggaa gacacctctt ttgaatcact ttctaaattc 120
aatgtcaagt ttccacctat ggacaatgac tcaactttct tacatagcac tccagagaga 180
ccgggcatcc ttagtctctgc cacgtctgag gcagtgtgcc aagagaaatt taatatggag 240
ttcagagaca acccagggaa ctttgttaaa acagaagaaa ctttatttga aattcagga 300
attgaccca tagcttcagc tatacaaaac cttaaaaca 339

<210> 192
<211> 252
<212> DNA
<213> Homo sapiens

<400> 192
tgatagtgat ggatggacgc cgctgcactg cgctgcctct tgtaacagcg ttcacctctg 60
caaacagctg gtggagagtg gtgccgccat ttttncctca accataagcg acattgaaac 120
tgctgcagac aagtgtgag ngatggagga aggcacatc cagtgtccc agtttctata 180
tggggtgcag gtgaagctgg gtgtgatgaa caaagggtgtg gcnnatgctc tgtgggacta 240
cgaggcccag aa 252

<210> 193
<211> 272
<212> DNA
<213> Homo sapiens

<400> 193
gacaaacagg actaccgcga gccctcggac ctgtccacct ttgtaaacga gaccaaattc 60
agttcaccca ctgaggagtt ggattacaga aactcctatg aaattgaata tatggagaaa 120
attggctcct ccttacctca ggacgacgat gccccgaaga agcaggcctt gtaccttatg 180
tttgacactt ctcaggagag cctgtcaag tcatctccc tccgcatgtc agagtccccg 240
acgccgtgtt cagggtcaag ttttgaagag ac 272

<210> 194
<211> 334
<212> DNA
<213> Homo sapiens

<400> 194
gagancctgg aaaaattaac cacatgagan acgatacact agcccagatg ttgacgttgg 60
gaaatatccg tncctggcaac aaaatgattg tnatggaaac gtgtgcaggc ttggtgctgg 120
gtgcaatgat ggaacgaatg ggagggttttg gctccattat tcagctatac cctggaggag 180

gacctgttcg ggcagcaaca gcatgttttg gatttcccaa atctttttctc agtgggtcttt 240
atgaattccc tctcaacaaa gtgggacagt cttctacatg gaacattttc tgccaagatg 300
ttatcttcag agccaaaaga cagtgccttg gttg 334

<210> 195
<211> 352
<212> DNA
<213> Homo sapiens

<400> 195
tttttggtttt gtcaaagtgt ttattgagtg tagacatctg gactactgta aaacatgoat 60
tatctgtaga ttcaaaaagg agcaagccac attgtcttca ctgtcaaatg tgtcaggctt 120
ggcatacatg atggagatta atgaagtatc atgagagtaa tatggttcct gaaaagcttc 180
tacaatttgg agtaggggtct taatcacgtg aaaaagcaaa ctgttcacat ttagtgaacc 240
tgcatttcat ggagggggggg ggggtacacan tattttaatt ttaaaacaaa taaaaataat 300
ttgtttgtca aagattccca tctcccaaac tttatttgtc gcattgggtt tc 352

<210> 196
<211> 355
<212> DNA
<213> Homo sapiens

<400> 196
ttatgaagaa gaaattatct attttaagaa agaacttcga gaaccacaat ttcgggatgc 60
tgaggaaaaag tatagagaaa tgatgattgt tatgaggaca acagaacttg tgaacaagga 120
tctggatatt tattataaga ctcttgacca agcaataatg aaatttcaca gtatgaaaat 180
ggaagaaatc aataaaaatta tacgtgacct gtggcgaagt acctatcgtg gacaagatat 240
tgaatacata gaaatacggc ctgatgccga tgaaaatgta tcagcttctg ataaaaggcg 300
gaattataac taccgagtgg tgatgctgaa gggagacaca gccttgata tgcca 355

<210> 197
<211> 456
<212> DNA
<213> Homo sapiens

<400> 197
gcacgagtct acatccagag gaccaagagc atgttccaga ggaccacgta caagtatgag 60
atgattaaca agcagaatga gcagatgcat ggcgtgctgg ccattgccc cactgatgtac 120
cccatgcgta ttgatgagag cattcacctc cagctgcggg agaaatatgg ggacaagatg 180
ttgcgcattg agaaagggtga ccacaagtc tatgaagaac ttttcagtta ctctgcccc 240
aagttcctgt cgctgttagt gcccaactat gataatgtgc accccaacta ccacaaagag 300
cccttcctgc agcagctgaa ggtgttttct gatgaagtac agcagcaggc ccagctttca 360
accatccgca gcttcctgaa gctctacacc aocatgcctg tggccaagct ggctggcttc 420
ctggacctca cagagcagga gttccggatc cagctt 456

<210> 198
<211> 422
<212> DNA
<213> Homo sapiens

<400> 198
gcacgagata ctgtgaaata ctttttctca caaaaaggca aatattgaag ttgtttatca 60
acttcgctag aaaaaaaaaa cacttggcatt acaaaatatt taagtgaagg agaagtctaa 120
cgctgaactg acaatgaagg gaaattgttt atgtgttatg aacatccaag tctttcttct 180
tttttaagtt gtcaaagaag cttccacaaa attagaaagg acaacagttc tgagctgtaa 240
tttcgcctta aactctggac actctatatg tagtgcattt ttaaaactga aatatataat 300
attcagccag cttaaaccca tacaatgtat gtacaatata atgtacaatt atgtctcttg 360
agcatcaatc ttgttactgc tgattcttgt aaatcttttt gcttctactt tcatcttaaa 420
ct 422

<210> 199
<211> 446
<212> DNA
<213> Homo sapiens

<400> 199
 cgatggagac atcaaaacaag agccaggaat gtatcgggaa ggacccacat accaacggcg 60
 aggatcactt cagctctggc agtttttggg agctcttctg gatgaccctt caaatctcta 120
 ttttattggc tggactgggc gaggcatgga atttaaactg attgagcctg aagagggtggc 180
 ccgacgttgg ggcattcaga aaaacaggcc agctatgaac tatgataaac ttagccgttc 240
 actccgctat tactatgaga aaggaattat gcaaaaagggtg gctggagaga gatatgtcta 300
 caagtttgtg tgtgatccag aagccctttt ctccatggcc tttccagata atcagcgtcc 360
 actgctgaag acagacatgg aacgtcacat caacgaggag gacacagtgc ctctttctca 420
 ctttgatgag agcatggcct acatgc 446

<210> 200
 <211> 581
 <212> DNA
 <213> Homo sapiens

<400> 200
 cgaaaaagaaa tcagaaatgg aaagtgtttt ggcccagctt gataactatg gacagcaaga 60
 acttgccgat ctttttgtga actataatgt aaaatctccc attactggaa atgatctatc 120
 ccctccagtg tcttttaact taatgttcaa gactttcatt gggcctggag gaaacatgcc 180
 tgggtacttg agaccagaaa ctgcacaggg gattttcttg aatttcaaac gacttttggg 240
 gttcaaccaa ggaaagtgtc cttttgtgtc tgcccagatt ggaaattctt ttagaaatga 300
 gatctccccct cgatctggac tgatcagagt cagagaattc acaatggcag aaattgagca 360
 cttttagat ccagtgagg aaagaccacc ccaagttcca gaatgtggca gaccttcacc 420
 tttatttgta ttcagcaaaa gccaggtca gcggacagtc cgctcggaaa atgcgcctgg 480
 gagatgctgt tgaacagggt gtgattaata acacagtatt aggctatttc attggccgca 540
 tctacctcta cctcacgaag gtggaatata ttcagataaa c 581

<210> 201
 <211> 625
 <212> DNA
 <213> Homo sapiens

<400> 201
 gtctctggccc agagcctgga cggggctgaa ggacacgggg gacagggctc ctggcttctt 60
 ccgccccgtc ctggcccaga gcctggagca tgatgagcac tcttgtccct ttaaaaaatc 120
 aaagccgcac ccgcctccc tggccagcaa gaaacctaaa agggaaacaa actctgacag 180
 cgtcccacct ggctacgagc ccattctcgt gctcgaggcg ctcaacggcc tccgggctgt 240
 ctccccggcc atccccctcg cccctcttta tgaagaaatc acctattcag gcatctcgga 300
 cggcctgtcc caggccagnt gtcccctcgc ggctatogac cacatcctgg acagcagccg 360
 ccagaagggc aggccgcaga gcaaggcccc cgacagcacc ctacgggtccc cgtcttcccc 420
 catccacgaa gaggatgagg agaagctctc cgaggacgtg gacgccccct cccactggg 480
 tggcgagag ctggccctgc gggaaagcag ctccccctgag agtttcataa cagaagagg 540
 tgatgagtcg tctgtcacca caagcaagg gaccgcagca gcttccattg agaatgtcct 600
 gcangacaag caagnccoga gcact 625

<210> 202
 <211> 806
 <212> DNA
 <213> Homo sapiens

<400> 202
 tctagttttt ggaaatggagc ctgcgcatcct atacaaccct ttacaaggcc agaaatgtat 60
 tgttcaaaaca acttcatggg cccagtgtct aaagacctgt ggaactggta tctccacacg 120
 agttaccaat gacaaccctg agtgccgcct tgtgaaagaa acccgattt gtgagggtgcg 180
 gccttgtgga cagccagtgt acagcagcct gaaaaagggc aagaaatgca gcaagaccaa 240
 gaaatcccc gaaccagtca ggtttactta cgctggatgt ttgagtgtga agaaataccg 300
 gcccaagtac tgccggttcc cgtggagcgc ccgatgtgtc acgccccagc tgaccaggac 360
 tgtgaagatg cggttccgct gcgaagatgg ggagacattt tccaagaacg tcatgatgat 420
 ccagtccctgc aaatgcaact acaactgcc gcattgccaat gaagcagcgt ttcccttcta 480
 caggctgttc aatgacattc acaaatttag ggactaaatg ctacctgggt ttccagggca 540
 cacctagaca aacaaggag aagatgtcag aatcagaatc atggagaaaa tgggcggggg 600
 tgggtgtggg gatgggactc antgtagaaa ggaagccttg ctcantcctg aggananta 660
 aggtatttct aaactgccaa ggggtgctggt gcggatggac actaangcag ccacgattgg 720

agaatactttt gcntcatagt antggagcac agttacngct caatttggag cntgtggaat 780
tgagacttcc ngnttccggt tgaaat 806

<210> 203
<211> 489
<212> DNA
<213> Homo sapiens

<400> 203
gcacgagcgg caccagtttc atttttccaa aagagaaaaa aatgacaaaa ggtgaaactt 60
acatacaaat attacctcat ttgtttgtgt actgagtaaa gaatttttgg atcaagcggg 120
aagagttttaa gtgtctaaca aacttaaagc tactgtagta cctaaaaagt cagtgttgta 180
catagcataa aaactctgca gagaagtatt cccaataagg aaatagcatt gaaatgttaa 240
atacaatttc tgaaagtatt gttttttttc tatcatctgg tataccattg cttttatttt 300
ataaattatt ttctcattgc cattggaata gatattctag attgtgtaga tatgctattt 360
aaataattta tcaggaaata ctgcctgtag agttagtatt tctattttta tataatgttt 420
gcacactgaa ttgaagaatt gttgggtttt tctttttttt gtttngnntt tttttttttt 480
ttttttttg 489

<210> 204
<211> 403
<212> DNA
<213> Homo sapiens

<400> 204
caagctcaga aggtgtcatct cagagttcac tctctcctgt actcattggg ggaaaccatt 60
tgatcactgc aggtgtgcca aggcgaagta aaagaattgc aggcacaaaaa gtttgcagag 120
tggaatcagg aaaagcaggc tgcttttctc ctaaaatcaa gccataaaga aaagggttccg 180
aagatctctg ccgtttgaaa ttcaatctag ggaaaaatgg cagagaagta aatgggatgt 240
tctggtgtca ataggatatt gaaagtgttg gttgggcgac ttgcaaatca acaaaagtta 300
aaaaatccga attngaattc gtaaaaacag gtttgctttt taagcccagn atgttggatt 360
ggaaaaangt taccanaaga aaggggttca agaaaaagga tca 403

<210> 205
<211> 462
<212> DNA
<213> Homo sapiens

<400> 205
tttacaggta cacaatttaa tatttattat atgcatttta tatacattat ttttcaacag 60
ctgtatgttt gctatgtggt acaatcttaa aaatttgctg attcatagtt tgtaaaacaa 120
aaaccttaca aaactcatca aaactcgcaa actgatcaga aaagtttctc ggaagactag 180
aaaaaatact ttattgtctt aatcatgcat tacacaaaac aaatcttttag ttacaccata 240
aaattaagca catctaaaaa aataaaaacag ggataactag tcaaaaacac gcagattttc 300
gtatcctgat tcaactattt ttgtatccta tttgtaatgc aaataaaaact ttactccaaa 360
tattttttaa caagttagtt ttgtttggaa tcatggtaaa ccaagatata tatcttaggg 420
ggaaccacct tgggtttgtaa tttaaactat aaaatactcc at 462

<210> 206
<211> 724
<212> DNA
<213> Homo sapiens

<400> 206
gtcaggggct gtagcaagta cattagcttc aagttcctta acttggacat tcaaatattc 60
ttcttgctct attaaacgct ggatgcttgc agtaaatttt tctagtgtgt tccctatttc 120
tcgttcacta tgccgtaact taactactct ttcttcaagt tgtactttct gttcttggat 180
ttgcattgct tttttagagt cgttttgcga actgtattcc attttgttta cctcttcttc 240
agagatttca ataacaagtg aggaacccat tcttcttttc attactttgc ttccaccacc 300
agtcattgta cctgactgtt ctatgatttg tccctgtaaa gttaccactc tccatcttct 360
atctttttga tatgctactc ttgtggcttg atccaagtgt tcagctacta aggtatctcg 420
taaagcaaaa taaaaagctt ggcgaatttt ctcatctttt acttttacta aatcaataaa 480
acgaggagta ttttcaggag tttgaatttc ggatcatctt ttccgccata cagccatctt 540
atctaaacct ataaaagttg caactccaat atttttgtct ttttaaggaag ttacacattt 600

cttgggctat atcaaataga tcaaccaaca atgtagtcca gtgcatgaca acaggatgat 660
 ataaccacct cggattttttt attaatgggt tctaaggccc caatcgtcca tataatttctg 720
 gaac 724

<210> 207
 <211> 371
 <212> DNA
 <213> Homo sapiens

<400> 207
 cctcgtgcaa gttanagggt cgnggnttg cagacctcac agaagatcag ctaccctcct 60
 gtgagagtct gaaggatact attgccagag ctctgccctt ctggaatgaa gaaatagtct 120
 cccagatcaa ggaggggaaa cgtgtactga ttgcagccca tggcaacagc ctccggggca 180
 ttgtcaagca tctggagggt ctctctgaag aggctatcat ggagctgaac ctgccgactg 240
 gtattcccat tgtctatgaa ttggacaaga acttgaagcc tatcaagccc atgcagtttc 300
 tgggggatga agagacggtg cgcaaagcca tgggaagctgt ggctgcccag ggcaaggcca 360
 agaagtgaag g 371

<210> 208
 <211> 359
 <212> DNA
 <213> Homo sapiens

<400> 208
 cggccatcac ctcatctctg tcaaggagaa cctcgttgac aaaatctgga cagaccgtcc 60
 tgagcgccct tgcaagcctc tcctcacact gggcctggat tacacaggca tctcctggaa 120
 ggacaagggt gcagaccttc ggttgaaaaat ggctgagagg aacgtcatgt ggtttgtggt 180
 cactgccttg gatgagattg cgtggctatt taatctccga ggatcagatg tggagcacia 240
 tccagtattt tnntcctacg caatcatagg acttagagac ggtcatgctc ttcattgatg 300
 gtgaccgcat agacggcccc agtggttgaag gagcacctgn tttctttaac ttgggcttg 359

<210> 209
 <211> 353
 <212> DNA
 <213> Homo sapiens

<400> 209
 tggcacgagg ccgtgtccaa gatgttttca gttcaacaca cagtctcctc cattattttg 60
 atcgtctgat tcttacogga gccgaaagca aaagtaatgg ggaagagggc tatggccgga 120
 gcttgagata cgcgcgtctg aatcttgccg ccttgcaactg ccgcttcggt cactatcaac 180
 aggagagct cgccttgcaag gaggcaatta ggattgcccga ggagtccaac gatcacgtgt 240
 gtctccagca ctgttttgagc tggcttttatg ttgctggggca gaagagatcc gatagctatg 300
 ttctgctgga gcattctgtg aaganggcag tacatttttg ggttaccgra cct 353

<210> 210
 <211> 651
 <212> DNA
 <213> Homo sapiens

<400> 210
 tttttttgac tgtcttcaca ttaatggaga ttggtgattt ctcttcagct tttacttctc 60
 ttggtgatga tggccttgag gctggagaaa atccaccag ggttgaaagg gctggagtcc 120
 catccgatt caatcccttt gcttttaatt tggcttcttg taaggctact tttctttttt 180
 ctacttcttt ttccagtaat tcatagtttg gcttttttct ggtataaagc ctaagtgttt 240
 ctatgcagat ttcctggatt tctcttctg tagtaccaaa aagaagaaac caatggggac 300
 gagttggcaa cggaaatctga agtgctctag ctgcaaggta gatgcaagca catgctatag 360
 tctctggttg aaatcgaaca aacacattgg ttcgaagact gtcattcatg taattccagg 420
 cagtttgaaac cagggtttga ttacgttcac attctaagac ttgtaaatac ataacaatga 480
 tcttatgagg atgcttgaca tgaacacaaa atcccaactc ctttagcacc ctctctctg 540
 ctttgataac ttgatttttg gtgttaatgt agttctgac aaggatcacg gggcttgagg 600
 tcttttctct ttttaactgg ggaggttggt gaatacatta atcacatctc t 651

<210> 211
 <211> 789

<212> DNA
<213> Homo sapiens

<400> 211
caagagcact acatganggg ctctgacggc gccccggaca ctgggtacct gtggcatgtt 60
ccattgacat ccattcaccag caaatccaac atgggccatc gattttttgct aaaaacaaaa 120
acagatgtgc tcatcctccc agaagagggtg gaattggatca aattttaatgt gggcatgaat 180
ggctattaca ttgtgcatta cgaggatgat ggatgggact ctttgactgg ctttttanaa 240
ggaacacaca cagcagccag cagtaatgat cgggcaagtc tcattaacaa tgcatttcag 300
ctcgtcagca ttgggaagct gtccattgaa raggccttgg atttatccct gtacttgaaa 360
catgaaactg aaattatgcc cgtgtttcaa ggtttgaatg agctgattcc tatgtataag 420
ttaatggaga aaagagatat gaatgaagtg gaaactcaat tcaaggcctt cctcatcagg 480
ctgctaaggg acctcattga taagcagaca tggacagacg agggctcagt ctcaagacaa 540
atgctgcgga gtgaactact actcctcgcc ttgtgtgaca actatcagcc gtgcgtacag 600
agggcagaag gctattttcag aaagtgggag gaatccaatg gaaacttgag cctgcctgtc 660
gacgtgacct tggcagtggt tgctgtgggg gccagagca cagaaggctg ggattttctt 720
tatagtaaat atcagttttc tttgtccagt actgagaaaa gccaaantga atttnccctc 780
ttcagaaca 789

<210> 212
<211> 457
<212> DNA
<213> Homo sapiens

<400> 212
caattaagggt ctttggcggg attgggtccg cgtttgggct ggtccgctgc tccccacctt 60
ccagggtcgg atccggagcc cttccccgcg gggcgggggac ctccaaacaa ccgactcctt 120
tccagctgaa gaaacactta aattctggaa atagcgactc agtatcatgg ccagcagcct 180
taatgaagat ccagaaggaa gcagaatcac ttatgtgaaa ggagaccttt ttgcatgccc 240
gaaaacagac tcttttagccc actgtatcag tgaggattgt cgcattggcg ctgggatagc 300
tgtctctctt aagaagaaat ttggaggggt gcaagaactt ttaaatcaac aaaagaaatc 360
tggagaagtg gctgttctga agagagatgg gcgatatata tattacttga ttacaaagaa 420
aagggtctcg cacaagccaa cttatgaaaa cttacag 457

<210> 213
<211> 727
<212> DNA
<213> Homo sapiens

<400> 213
tttttttggc ggtaatatat tgctgcaactg agtgtgtgca atttttatct aagggtcatcg 60
tgatgctgag aagtttctgt gataacctgt ccatctctag tttcaaccgt cttaatcaga 120
agtgtccttt ttgagtgggt atcaaccaga gggagtgaat ccagattagt ttccctcagg 180
ttcagggagg aaaagtgttg aagaggcaga gaaatcctgc tctcctcgcc ttccagcagc 240
ttcctgtagg tggcaatctc aatgtcaagg gccatcttaa cattgagcag gtcttggtat 300
tcacgaagggt gacgagccat ttctctcttc atattctgaa tctcatcctg caggcggcca 360
atagtgtctt ggtagttagc agcttcaacg gcaaaagtct cttccatttc acgcatctgg 420
cgttccaggg actcattgggt tcttttaagg gcatccactt cacagggtgag ggactgcacc 480
tgtctccggt actcagtggg ctctctgctt gcctggcgca gggcgctcatt gttccggttg 540
gcagcctcag agaggtcagc aaacttggat ttgtaccatt cttctgcctc ctgcaagttc 600
ttggcagcca cactttcatt ttgctgacgt acgtcacgca gggcagcgct gaggtcaagc 660
ttggaacat ccacatcgat ttggacatgc tgttccctgga tctgagcctt gcgcttctgg 720
atttctc 727

<210> 214
<211> 622
<212> DNA
<213> Homo sapiens

<400> 214
gctcctgtca gtacacactc ccaaacagtt aaaccagct ctaattccaa ctctgcaaga 60
gcttttaagc aaatgcagga cttgtctgca acagagaaac tcaactccaag agcaagaagc 120
caaagaaaga aaaactaaag atgatgaagg agcaactccc attaaaaggc ggcgtgttag 180
cagtgatgag gagcacactg tagacagctg catcagtgac atgaaaacag aaaccagggg 240

ggtcctgacc	ccaacgagca	cttctgacaa	tgagaccaga	gactcctcaa	ttattgatcc	300
aggaactgag	caagatcttc	cttccccctga	aaatagttct	gttaaagaat	accgaatgga	360
agttccatct	tcgtttttcag	aagacatgtc	aaatatcagg	tcacagcatg	cagaagaaca	420
gtccaacaat	ggtagatatg	acgattgtaa	agaattttaa	gacctccact	gttccaagga	480
ttctacccta	gctgaggaag	aatctgagtt	cccttctact	tctatctctg	cagttctgtc	540
tgacttagct	gacttgagaa	gctgtgatgg	ccaagctttg	cccttccagg	accctgaggt	600
tgctttatct	ctcagttgtg	gc				622

<210> 215
 <211> 448
 <212> DNA
 <213> Homo sapiens

<400> 215						
atagttaaac	aactttatta	acatagtcaa	gcagtgatta	acattcacat	ctattatgtc	60
acatcataca	aatgtaaata	caaaattact	acagtacaat	atatattctc	tgcatgatcc	120
aaaatatttg	gtggcccca	aaaactctct	ttaaaattca	gcagcttatc	aaaaattaaa	180
accgtattct	attttaaagt	gagatctgtt	agcacagagt	tagacttcaa	gaaatatcaa	240
tttagtacag	tttgagaagt	tgaggagga	tatgtttgaa	ggacacattc	taacatagtg	300
ttgcaggtac	aggaacatc	agattttaa	cttttaagca	taactcatac	aacctaaagt	360
gtcagcagaa	agatccagtt	atatttgtaa	ctaaagctaa	tgctactaaa	ttattgcacc	420
caatgttaac	atattaagt	taaaactg				448

<210> 216
 <211> 595
 <212> DNA
 <213> Homo sapiens

<400> 216						
tctgttctaa	tgtatcatta	agctccttaa	aatactggag	aacagcttcc	ttatcgccctt	60
ggatcatttt	ctcagaatga	gattttttgtt	ctttcagctt	ttcaataaga	tggttaagat	120
ctgtccagtg	tgtgtcagtc	aactgttcaa	gcagtttttg	aggagtgtcc	ttttctttca	180
aataggcact	ttgaaggcca	tctataggat	gaccatgatg	ttgacctatg	gtaaggcaat	240
gaccacaaac	taatttttta	tctaatagac	agtaaacatt	taatggttgc	ctgtaatgtt	300
cagggcaggt	gacaatatct	ggatgggtctt	cttgctggta	cttttcaata	atagccctta	360
gtgcaaaaatt	aacagggtaaa	gatttcaatgc	cagttggagc	aatttcagta	atacttctgc	420
aattaggggca	cttgagtgga	attcgtaaa	gtctccatat	ataaaagtta	ccagatgcct	480
gaagaatggt	ttccaaaaca	ttctacaaa	atgtatgaga	gcattggcag	acacgaggat	540
cttcaaaaat	actataacat	atggggacaag	ttaactcttg	ctcanaattg	tgcat	595

<210> 217
 <211> 153
 <212> DNA
 <213> Homo sapiens

<400> 217						
aagtgggtgg	gcttgccaag	ctcgacacca	gtgcgactga	ggccagggcc	ctcggccttc	60
accttactgg	cgtcatgaga	gggctccacc	ttgactcgga	tggggctsgt	gggcgtggcc	120
tggtcagcaa	agaggaccat	aatggtgtag	ctg			153

<210> 218
 <211> 446
 <212> DNA
 <213> Homo sapiens

<400> 218						
tagatggcta	cttcgggctc	acagcagatg	cccatcatta	cctctgcacc	gacgtggccc	60
ccccgttgat	cgtccacaac	atacagaatg	gctgtcatgg	tccaatctgt	acagaatacg	120
ccatcaataa	attgcgga	gaaggagcg	aggaggggat	gtacgtgctg	aggtggagct	180
gcaccgactt	tgacaacatc	ctcatgaccg	tcacctgctt	tgagaagtct	gagcaggtgc	240
agggtgccc	gaagcagttc	aagaactttc	agatcgaggt	gcagaagggc	cgctacagtc	300
tgcacggttc	ggaccgcagc	ttccccagct	tgggagacct	catgagccac	ctcaagaagc	360
agatcctgcg	cacggataac	atcagcttca	tgctaaaacg	ctgctgccag	cccaagcccc	420
gagaaatctc	caacctgctg	gtggct				446

<210> 219
<211> 581
<212> DNA
<213> Homo sapiens

<400> 219
acggatagcgg gatctgcgac aggggctgct ggacatcagc aaccatttca tccccctctgc 60
tggggcacttt ggctggtaga ctattttcca tccgagtcct ctcttcagct ttttccggtt 120
gctcagtttt tgggttcatct ttctctctcaa actgtgatgc ttcttgagac tgatgggtctg 180
aaggagtagc tgggtctagca gatgatgatg aggtctgggg agtttctctca cttagcttcaa 240
ctctactctt atctgttttc tctcttctct tcttatttgt cttatcgggt tctttggcct 300
cttcattatg gctaccctca gagtcagagc actcctcccc ttctgtccaca ggccggaagt 360
ccatctcctg ctcttctgga ataggctctt tctgtacttt ttttagagaa aggaatgctc 420
cagatgagtc aaatgtacct atttcttctt cagcatcctc taagcaccat tcgggcaagc 480
tatccctgtc atcatctatg cttccactgc cagagcgaac ccgataagac aaataagaaa 540
gaaggagaga aaacagatcc gctagcagat ccgctatccg t 581

<210> 220
<211> 372
<212> DNA
<213> Homo sapiens

<400> 220
tttgaacata atagcacgat gttggaatcc gacttgggga ccatgggtgat aaacagtgag 60
gatgaggaag aagaagatgg aactatgaaa agaaatgcaa cctcaccaca agtacaaaaga 120
ccatcttttca tggactactt tgataagcaa gacttcaaga ataagagtca cgaaaactgt 180
aatcagaaca tgcataaacc cttccctatg tccaaaaacg ttttctctgg attaaactggg 240
aaagtctctc caagatggga gactttttga ctttttttgg aaaaatctta agtttttaggn 300
aggaacttac cagggtgcgg gtttaaaaaa gcaacttggga ccccatgggt tggggaacgg 360
gngggttagg ga 372

<210> 221
<211> 448
<212> DNA
<213> Homo sapiens

<400> 221
tttttttttt ttttatgatg cactccaagt gccatatgtc tattttatct ttcaggaaat 60
tatatttttt ttttacaaga gcacaacagg aaccaaaagta aaagagtaat agatacagca 120
ctcaggataa atcatatctt taaaataata ataaaaaaat ttacaccttg tctatatatc 180
tggttagtatt ttcataatat ggccatgatt gaaaaaacia aaagcaagca tctacaattt 240
tttttgataa agacttttta tgccaggaaat ggattaatta ccaacaaaat ttataactaat 300
caggctgatg tcaatctatt ttgtaatgt atcatataca aatttatctt ggaaaagata 360
aaaatattgc ccttgataa taaatctttt tttcctttga tgcaaacagc tagaacacct 420
ttttcttttt ctttttgata ttctaaga 448

<210> 222
<211> 373
<212> DNA
<213> Homo sapiens

<400> 222
gttgacatg ccgtcggcca tgactgtgta tgctctgggt gtgggtgtctt acttctctcat 60
caccggagga ataatttatg atgttatgtt tgaacctcca agtgtcgggt ctatgactga 120
tgaacatggg catcagaggc cagtagcttt cttggcctac agagtaaatg gacaatatat 180
tatggaagga cttgcatcca gcttctatt tacaatggga ggattaggtt tcataatctt 240
ggaccgatcg aatgcaccaa atatcccaaa actcaataga ttcttctctt tgttcattgg 300
attcgtctgt gtctattga gttttttgat ggctagagta ttcattgagaa tgaaactgcc 360
gggctatctg atg 373

<210> 223
<211> 386
<212> DNA

<213> Homo sapiens

<400> 223

ggcacgaggg	ttcaagctac	tgcggaaatg	catcctgcag	atgacccggc	ctgtgggtgga	60
gggggtccctg	ggcagccctc	catttgagaa	acctaataatt	gagcaggggtg	tgctgaactt	120
tgtgcagtac	aagtttagtc	acctgggtcc	ccgggagcgg	cagacgatgt	tcgagctctc	180
aaagatgttc	ttgctctgcc	ttaactactg	gaagcttgag	acacctgccc	agtttcggca	240
gaggtctcag	gctgaggacg	tggctaccta	caaggtcaat	tacaccagat	ggctctgtta	300
ctgccacgtg	ccccagagct	gtgatagcct	cccccgctac	gaaaccactc	atgtctttgg	360
gcgaagcctt	ctccggtcca	ttttca				386

<210> 224

<211> 593

<212> DNA

<213> Homo sapiens

<400> 224

ggcacgagga	ttgcacacct	aaaccttcga	gatcatcagc	tgcctttcaa	acatttaatt	60
ggccaggtta	tgattgacaa	aaatccagga	atcacctcag	cagtaataaa	aataaataat	120
attgacaata	tgtaccgaaa	tttccaaatg	gaagtgtat	ctggagagca	gaacatgatg	180
acaaaggttc	gagaaaacaa	ctacacctat	gaatttgatt	tttcaaaaag	ctattggaat	240
cctcgtctgt	ctacagaaca	cagccgtatc	acagaacttc	tcaaacctgg	ggatgtccta	300
tttgatgttt	ttgctggggg	tgggcccttt	gccattccag	tagcaaaagaa	aaactgcact	360
gtatttgcca	atgatctcaa	tcctgaatct	cataaatggc	tgtttgtacaa	ctgtaaatta	420
aataaaagtgg	acaaaaaggt	gaaagtcttc	aacttggatg	ggaaagactt	cctccaagga	480
ccagtcaaag	aagagttaat	gcagctgctg	ggtctgtcaa	aagaaagaaa	accctctgtg	540
cacgttgtca	tgaacttgcc	agcaaaaagct	atagagtttc	ttagtgcttt	caa	593

<210> 225

<211> 477

<212> DNA

<213> Homo sapiens

<400> 225

gtaagttcag	cgcgcccgtc	ccggccggcc	ctgcgcctcc	cgccgcgccc	gggatgtatt	60
cgcccccgct	ctgcctcacc	caggatgagt	tccaccggtt	catcgaggcc	ctgctgcctc	120
acgtccgcgc	cttcgcctac	acctggttca	acctgcaggc	gcggaagcgc	aagtacttca	180
agaagcacga	gaagcggatg	tcgaaggacg	aggagcgtgc	ggtcaaggac	gagctgctgg	240
gcgagaagcc	cgaggtcaag	cagaagtggg	cgtcgcggct	gctggccaag	ctgcgcaagg	300
acatccggcc	cgagtgccgc	gaggacttcg	tgctgagcat	caccggcaag	aaggcgccgg	360
gctgcgtgct	ctccaacccc	gaccagaagg	gcaagatgcg	gcgcacgcac	tgtctccggc	420
aggcggacaa	gggtgtggcg	ctggacctgg	tcattggtcat	cctgttcaag	ggcatcc	477

<210> 226

<211> 299

<212> DNA

<213> Homo sapiens

<400> 226

gccaaagctc	aataccccat	tgctgatttg	gtaaagatgc	tcactgagca	aggcaaaaaa	60
gtcaggtttg	gaattcaccc	agttgcaggc	cgaatgcctg	gncagcttaa	tgtgctgctg	120
gctgaggctg	gtgtgccata	tgacattgtg	ttggaaatgg	atgagatcaa	ccatgatttt	180
ccagatactg	atttggtcct	tgtaattgga	gctaattgaca	ctgttaattc	agcagctcaa	240
gaagatccca	actctattat	tcgaggcatg	ccagtccttg	aggtctggaa	atcaaagca	299

<210> 227

<211> 390

<212> DNA

<213> Homo sapiens

<400> 227

gagtgaagga	gttgaaactt	ttcttgttag	tgtacaactc	atthttgcgc	aatthttcaca	60
agtgtttgtc	tttgtctgaa	tgagaagtga	gaaggttttt	atactctggg	atgcaaccga	120
catgttcaaa	tgtttgaaat	cccacaatgt	tagaccaatc	ttaagtttcg	taagttattt	180

cctttaagat	atatattaaa	cagaaatcta	agtagaactg	cattgactaa	ccagtccctc	240
tgggatggg	tgaacctgaa	gcatgcttta	acctctaaga	ctgtctaaca	cgcgtttcat	300
tcaatgtctc	cacagactgg	gtagcaaaaa	aatcaccttt	tagttttagt	ttttaatcta	360
aagatgttag	acagatgctg	agtgtgcgtt				390

<210> 228

<211> 423

<212> DNA

<213> Homo sapiens

<400> 228

ttcctctgtc	gggtgtggcc	aagtggggat	aaagagaaga	gcaacatctc	taatgaccag	60
ctccatgctc	tgctctgtat	ctacttggag	cacacagaga	gcattctgaa	ggccatagag	120
gagattgctg	gtgttgggtg	cccagaactg	atcaactctc	ctaaagatgc	atcttcctcc	180
acattcccta	cactgaccag	gcatactttt	gttgttttct	tccgtgtgat	gatggctgaa	240
ctagagaaga	cggtgaaaaa	attgagcctg	gcacagcagc	agactcgcag	cagatttcat	300
gaagagaaac	tcctctactg	ggaacatggg	ctgttcgaga	cttcagtatc	ctcattcaac	360
ttggattaaa	ggtattttga	tagttcatcc	tgttntctggc	atgtatgctt	ggaaggggag	420
gat						423

<210> 229

<211> 417

<212> DNA

<213> Homo sapiens

<400> 229

tagaaaaagaa	aagaaaactt	gaaaactaat	ctgatattaa	gccatcaaat	gtggaaccta	60
tggaaaaagga	gttttgggctt	tgcaaaaactg	agaacaaaagc	caagtcgggc	aaacagaatt	120
caaagaaact	gtactgccaa	gaacttaaaa	aggtgattga	agcctccgat	gttgtcctag	180
aggtgttggga	tgccagagat	cctcttgggt	gcagatgtcc	tcaggtagaa	gaggccattg	240
tccagagtgg	acagaaaaag	ctgggtactta	tattaaataa	atcagatctg	ggtaccaaaag	300
gaggatttgg	gagagctggg	ntaaattatt	ttgaaggaaa	gatttgccca	acagtgggtg	360
tttcagagcc	tcaacaaaaa	cccaaagggt	taaagggggn	ggtttacca	gggtttc	417

<210> 230

<211> 441

<212> DNA

<213> Homo sapiens

<400> 230

cagtttcaatg	tatttgaatc	gacaagacac	ctccctcgat	tctccatgta	tgcgctgacc	60
agcctggacc	ctgccagtga	gccaatcagt	tatgttaact	ttaccattgc	agaacgggca	120
cagagggttg	ttgtatggct	cggtcagaac	tttctgttac	cagaagacac	tcacattcag	180
aatgctccat	ttcaagtgtg	tttcacatct	ttacggaatg	gcggccanct	gcatataaaa	240
ataaaactta	gtggagagat	cactataaat	actgatgata	ttgatttggc	tggtgatatc	300
atccagtcaa	tggcatcatt	ttttgctatt	gaagaccttc	aagtagaagc	ggattttcct	360
gtctattttg	aggggaattac	ggaaagggtc	tagttaagg	ggatgaatat	cctttcagtg	420
cattcagaag	ctccagtgct	t				441

<210> 231

<211> 333

<212> DNA

<213> Homo sapiens

<400> 231

ggtgtcccag	gaagtcagcc	attactcccc	agtgggaatgg	atccaactcg	acaacaagga	60
catccaaaata	tgggtggggc	aatgcagaga	atgactcctc	caagagggaat	ggtgccctta	120
ggaccacaga	actatggagg	tgcaatgaga	ccccactga	atgctttagg	tggccctggg	180
aatgcctggg	aatgaacatg	ggtccaggtg	gtggttagacc	ttggccaaac	ccaacaaatg	240
ccaatttcaa	ttaccatact	ccttcagcat	ctcctgggga	atattattgt	aggctctcca	300
gggaggttga	ngggccacca	gggnacaccc	ttc			333

<210> 232

<211> 402

<212> DNA
<213> Homo sapiens

<400> 232
ccctttacac agactcactt gtcactcact gccatagagt acagccacag ccacgacagg 60
tacctaccag gtgaaacott tgtcctgggg aatagtcttg cccgctcctt ggaaccacac 120
tcagactcaa tggactctgc ctcaaattcc accaaccttg tcagcacctc ccaaaggcac 180
cggcccttgc tttcatcctg tggcctccca ccaagcactg cctcagctgt gcgcaggcta 240
tgctccaggg ggtcggaccg atacctggga gagccgcgat gcctcttcga ctgagtggcc 300
gggacccctt ccttcattgg acagttcgag gatgttgatt gcagttttgt tccggggaag 360
gttgattcct caggtttggg accccaaggt tgaacctgtt tt 402

<210> 233
<211> 492
<212> DNA
<213> Homo sapiens

<400> 233
tgggatcata aggagccctt aaatacttgt tattgactgg ggttatTTTT atgctgtagc 60
aaatgtgaca ggctcttttt agcaaaatTT ttgaaaatTT ttttggtatt actctgaaac 120
aaaattttaag ttggagtttc agggattttag ggagtagttt tcattctaca tgaactgagg 180
taatattatg gtaactccaa tattttggtta aaaaaactat acaaatcaga atagtactaa 240
aatactgtag gaatttttag cattttttatt ttgcactttg tgtgggattg aggggtgttca 300
ggaaataccg aaccatttaa aaatgtaatc tagttggggc aaaggggtgt cggcttaaaa 360
cacgggaacc cgaacntggc nttggnttgg ggntaacttt ttgaggggtt ttttgtccaa 420
naggcctgtg ggaggagtta ccatttttctn ttaaagggtg ggtgggtccc cctgtccaga 480
gttctnnggg ac 492

<210> 234
<211> 321
<212> DNA
<213> Homo sapiens

<400> 234
cgtggcactc caccagctct accaatacac gcagaagtac tatgacgaga tcatcaatgc 60
cttggaggag gatcctgccg cccagaagat gcagctggcc ttccgcctgc agcagattgc 120
cgctgcactg gagaacaagg tcaactgacct ctgacctaca atctccagtg ctgccttggg 180
acatagggtac ctgagggtacc tgagagcccc tcaggggang nggcccagtg gctgtggctg 240
aggccccccac cctccctctg gaacgcgccc caagccggan tgggtgcagc cggaacccgn 300
ccagcgtttt agactgtagc a 321

<210> 235
<211> 359
<212> DNA
<213> Homo sapiens

<400> 235
gcttgctatg aagcagtggt tgaatggaca atgttgaatg aatgtctggc tcagtgatgg 60
agagccaggt tcatctttga aatctagggc tcttcaactca tgaagcagac tcctagtcct 120
ggagtgactg tgtacgagag cgtggttgtg gtgctgtatg tgaacgcag caagcttgat 180
tcaccttcag ggggctgata acctagtaaa tcatcaaaat gagatcataa gtgttaatgt 240
acactggaca tgaaaacaaa gactggttta gcagcagaca ttggtttact ctgcagcctg 300
tgttttctgt ttcccccttt cccacctcct tccccccacc caatcctttt ttttttttt 359

<210> 236
<211> 306
<212> DNA
<213> Homo sapiens

<400> 236
gtgatgatgg gcagccctggt gtacctgagg ctgggcttgg agaagtcacc ctactgccac 60
ctgctggaca gcagccactg ggcagagatc tgtgagacct ttaccgggga cgcctgttcc 120
ctgctggggc tttctgtgga gtccccctt agcgtcactt ttgcctctgg ctgtgtggcg 180
ctgcctgtgt tgatgaacat caaggctgtg attgagcagc ggcagtnac tgggggtctgg 240

aatcanaagg acganttacc gattgagatt naactaggca tgaagtnctg gtaccactcc 300
gtnttc 306

<210> 237
<211> 395
<212> DNA
<213> Homo sapiens

<400> 237
gtcaaaatat tacagtagaa tctgagtgtg atatgtgtgta ccaaaatgag aaagaatata 60
agaaatgttt ctggagctag ttatgtctca caatcttgta gaatcttaca gcatctttga 120
taaaacttctc agtgaaaatg ttggctaggc aagttcagtt aaaatatagt agaaatgttt 180
atcctgggtat ctctaagtat acatttaatt gtacagaaaa ttacagtggt aacattgttc 240
aacatttgca gattgactgt atatgacctt aatctttgtg gcagcctgaa ggatcagtggt 300
agttaatgcc nggggaaagt gcttttttac ctaggacttc cnttctcagc ttctcccctt 360
aaagagaccc ctaantatgg cntttttggn tttgt 395

<210> 238
<211> 440
<212> DNA
<213> Homo sapiens

<400> 238
gacaatccat taattccagc tgcgtgcata gatcacattt ttaaaatgta aaaatgcaag 60
caaaaacagc tgtaacaaag aaagtgtgct caaggaccac agatttaaca gataaaaaata 120
cccaattaga agagatatag tagactatat gaagagagat tatatttgtt acacaccaat 180
atacatcaaa gtgcctgttg ccttctgaaa atttgaagtg gcaaaattat tttatggttt 240
aatgattatt ttattttatc agggactgcc tcaagaagaa aataacataa gcttggtggaa 300
tgggtgggag aaaatgacct attttttctt ggcaataact tgtattaaag ttaacnttgt 360
tggatcntga tattatccta ggggtacngtg tatgtgtgta ttaattatan ggtgtgtgtg 420
tanattatac cntttatata 440

<210> 239
<211> 507
<212> DNA
<213> Homo sapiens

<400> 239
nggctcctat cagtgcacct gccctgatgg ttaccgcaag atcggggccg agtgtgtgga 60
catagacgag tgccgctacc gctactgcca gcaccgctgc gtgaacctgc ctggctcctt 120
ccgctgccag tgcgagccgg gcttccagct ggggcctaac aaccgctcct gtgttgatgt 180
gaacgagtggt gacatggggg ccccatgcca gcagcgtgc ttcaactcct atgggacctt 240
cctgtgtgcg tgccaccagg gctatgagct gcacgggat ggcttctcct gcagtatat 300
tgatgagtggt agctactcca gctacctctg ttcagtagcg ctgctgcaac gagccagggc 360
cgttntttcc tggccactgc ccacagggtt taccagctgn tggggccaaa ggnttttgcc 420
aagaacattt gattgagtggt tgagtttggg tgcgnaacag tggttccgag ggnccaaant 480
ttgttaaat tccatggggg ttaacgt 507

<210> 240
<211> 369
<212> DNA
<213> Homo sapiens

<400> 240
gagacagatg gccaccagg agctgttgct ctggttgcct tcctgcaggc cttngagaag 60
gaggtcgcca taatcggtga ccagagagcc tggaaactgc accagaagat tgttgaagat 120
gctgttgagc aaggtgttct gaagacgcag atcccgatat taacttacca aggtggatca 180
gtggaagctg ctgaggcatt cctgtgcaaa aatggggacc cgcagacacc tagatttgac 240
cacctgggtg ccatagagcg tgcggaaga gctgctgatg gcaattacta caatngcaag 300
gaagatggaa catncaagca cttnnggtga nccatttna acgatctntt tcttngctt 360
gcgaggang 369

<210> 241

<211> 248
<212> DNA
<213> Homo sapiens

<400> 241
aatctaattc aaattgtcaa agctacaaaa ggggggaaga catctgtatt anttttgcta 60
agtcacaaca tctaataaca aaatactact actgtcagca gatccattat acacatttct 120
gatgaaatcc attagaacaa taaaaatttc atcttgagaa atagccacaa tgaaagtaat 180
ttacacaata taaaacaatg acagntctac agatgcagtt gctcatgagt ttacacatgc 240
atacacia 248

<210> 242
<211> 288
<212> DNA
<213> Homo sapiens

<400> 242
gtttccaaaa ttcactgtac atgatcagtt tgggtgttctt gtaccacagt ttttaactga 60
aggaaccagt tgtaacagtc tcaatttttaa ctaaaacttg aagaactaaa acaacaatgc 120
aaacctttca gcattgtttg gccaaaacttg ttaaaaactgt aatgcaagaa ccaaatgcac 180
tgtgatgtgg caccaactaa ttagcaagca tgahttttyc acccaagagt gaaaaargga 240
aaatctacca tggccttgaag ttaaagrgca gamctcctga ctaccatt 288

<210> 243
<211> 423
<212> DNA
<213> Homo sapiens

<400> 243
aaagagttaa ggaaggcagg ttgtntcttct attcaggnc a ctcttcgttt tncatgtact 60
gcatgtctgt tgtggcactt tatcttcaag ccaaggatgaa gggagactgg gcaagactct 120
tacgnccac actgcaattt ggtcttgttg ccgtatccat ttatgtggc ctttctcgag 180
tttctgatta taaacaccac tggagcgatg tgttgactgg actcattcag ggagctctgg 240
ttgcaatatt agttgctgta tatgtatcgg atttcttcaa agaaagaact tcttttaaag 300
anagaaaaga ggaggactct catacaactc tggcatggaa acaccaacaa ctgggggaatc 360
actntgccga gccaatcacc agccttgaaa ggcagccagg gtgccnagg tgaagctggcc 420
tgt 423

<210> 244
<211> 460
<212> DNA
<213> Homo sapiens

<400> 244
ccaacagtat ctctgcac aaacgcctct ctgggctcct caaagtcctt gatatcatgc 60
ccttgaccct gcatgcctgt atgcaccaga agcagaggct cagaaacctg gagcagtttg 120
cccgctcggg agactgtgtt ctcttgcaa cagatgtggc agctcggggt ctggatattc 180
ctaaagtcca gcatgtcatc cattaccagg tcccacgtac ctcgagatt tatgtccacc 240
gaagtgggtc aactgctcga gctagcaatg aaggcctcag tctgatgctc attgggcctg 300
aggatgtgat caactttaag aagatttaca aaacgctcaa gaaagatgag gatatccac 360
tgttccccgt gcagacaaaa tacatgggat gtggttcaa gagcgaatcc gtttttagctc 420
gacagatttg aggaatctga gtattcggaa ctttcnngt 460

<210> 245
<211> 2533
<212> DNA
<213> Homo sapiens

<400> 245
ccaaagcccat gagggccgag cgcccgccg cgggtgctga cgagacggag ctctgggccc 60
ccgaggagga gcagaggatc aatgcggttc aagaatcgat tccagcgggt catgaaccat 120
cgagctccag ccaatggccg ctacaagcca acttgctatg aacatgctgc taactgttac 180
acacacgcgt tctcattgt tccggccatc gtgggcagtg cctctctcca tgggtgtct 240
gatgactgct gggaaaagat aacagcatgg atttatggaa tgggactctg tgccctcttc 300

atcgcttcta	cagtatttca	cattgtatca	tggaaaaaga	gccacttaag	gacagcggag	360
cattgttttc	acatgtgtga	tagaatgggt	atctatttct	tcattgtctgc	ttcttatgct	420
ccatgggttaa	atcttcgtga	acttggaccc	ctggcatctc	atatgcgtcg	gtttatctgg	480
ctcatgggcag	ctggaggaac	catttatgta	tttctctacc	atgaaaaata	taagggtggtt	540
gaactctttt	tctatctcac	aatgggattc	tctccagcct	tgggtggtgac	atcaatgaac	600
aaacocgatg	gacttcagga	acttgcctgt	gggggcttaa	tttattgctt	gggagttgtg	660
ttcttcaaga	gtgatggcat	cattccattt	gcccacgcca	tctggcacct	gtttgtggcc	720
acggcagctg	cagtgcatta	ctacgccatt	tggaaatacc	tttaccgaag	tcctacggac	780
tttatgctgg	atctatgacc	aatctgtact	aattctccaa	accagtatta	tttcaattat	840
ggcacttggg	agtgggggtga	gagctaaaca	ttgcacaggg	caaagaaaaa	aaataactgc	900
actgacttta	tatcttttga	atataaattac	tgtgaaagta	taaaggctgt	gttctggaat	960
tttctgcctc	acagcaaaata	aataaggtag	tgaattaatt	attcattcca	ttccactatc	1020
atgaaggact	ctgaatagac	ttggccaact	gatgtttaca	aaccagactt	ttatatttta	1080
attttacaga	ttttactaca	tgatttttct	aaattactat	gtcaggttgt	aaaagtccgt	1140
gcaataacaa	accttccttt	ttaagaagaa	aattgtttct	attactttcc	cattcactag	1200
gtaaagaatc	atggacagaa	cttacctact	tttttaccat	gtttcatctt	ggcataacat	1260
gggtcttttt	taaatagaaa	cttttagttt	ttgtaaaatt	ttaaaaaaat	atttcattga	1320
tatgcactct	tgcaggctct	cattcatggt	gtaaaatttt	ggagcaagca	gtcaacattc	1380
cacaaacgaa	caaacattat	acctcttctg	atagttttat	taagcatgga	gaaattgcca	1440
atttttaaaa	actgcagttt	tccaaacttt	tctgccacc	tcttactctg	aattcagtgc	1500
tgtcttggga	catatacttg	acctagcttg	gtttaccagt	gatggaaaaag	tattttgata	1560
tcattaactt	tttcaaaaga	tccaaacttt	tctctatgcc	tttgccacat	tctcttcagg	1620
gtctctttcc	acagcggata	aatgtttttt	ctgtattatg	acagtattgt	tgtgatggcc	1680
atctgctgga	aaactctgaa	gagcattatg	tattacagtg	agcagttgta	ttgctgtttt	1740
ggtgccccat	ggttaagtca	ttgtcactta	gctttatatt	gtcagtttga	tattttattt	1800
aaattgtgga	actagatgca	taaattcaca	tttctgcctt	tcctttgcat	cttctcatat	1860
attgtgtttt	tttttttttt	cctagaaaaa	atattttaaag	cattgttttg	caggtagaaa	1920
ctcatgtatc	tgtagtccat	gagtttatct	ctggctcagt	ggagtgtat	ttatgtatta	1980
tttttacttt	tctctcactg	tcttatatta	agattaacat	gttgtaata	gttgctttgt	2040
tgattaatct	ctcttggttg	tgttttaata	aatgaaatag	gcttgccctt	agatcgggtg	2100
ctgatattgc	ctgtttccta	gtaatgggct	gatcaaatga	tcagtgggaat	tcttggtttg	2160
atgataacct	tattaattga	aattttttac	tgatgtggct	ttaaaagagg	tttattttgt	2220
atatgttttag	aactctctga	ttttgatgaa	ttatatggga	gtgagaaaca	gaagaagtgg	2280
tatttgctgg	cgagttaaat	aggcaaggta	cccagtgata	acaccaacca	aaccactcct	2340
atctgcatga	ttctgaacat	ctggatgcct	gttggttttac	tgtgtatatt	ttatttttaa	2400
tatattaact	ttgtggattc	atttaagggt	tactcaaaag	taacactgtc	caaaccacta	2460
atatgtatgt	aaaaattgtg	ctgtatacta	caataaagtt	gttacttggg	tttgttccaa	2520
aaaaaaaaaa	aaa					2533

<210> 246
 <211> 6072
 <212> DNA
 <213> Homo sapiens

<400> 246	ggggaggccc	ccgcgcttta	aaataatgcc	cgcgccgccc	gcgcgaccat	60
ggtggtcggc	gcaatggcga	gcgctcgtcc	tggggctggg	gctcctccgg	cttggcctcc	120
gtggctcgtc	ttcgggctgg	ggcccagcat	gggcttctac	cagcgccttc	cgctcagctt	180
cggcttccag	cgtctgagga	gccccgacgg	ccccgcgtcg	cccacctcgg	ggcccgtggg	240
ccggccctggg	ggggatcccg	ggccgtcgtg	gctgcagccg	ccggggaccg	gggcagcgca	300
gagcccgcgc	aaggctccgc	ggcgtcctgg	gcccgggatg	tgccggccag	ccaactgggg	360
ctacgtgctg	ggcggccggg	gccgcggccc	ggacgagtag	gagaagcgct	acagcggcgc	420
cttccctccg	cagctgcgtg	cccagatgcg	cgacctggca	cggggcatgt	tcgtctttgg	480
ctacgacaac	tacatggctc	acgccttccc	ccaggacgag	ctcaacccca	tccactgccg	540
cggccgtggg	cccgaccgcg	gggacccttc	aaatctgaac	atcaatgatg	tactagggaa	600
ctactcattg	actcttgttg	atgcattgga	tacacttgca	ataatgggaa	attcatccga	660
gttccagaaa	gcagtcaagt	tagtgatcaa	cacagtttca	tttgacaaaag	attccaccgt	720
ccaagtcttt	gaggccacga	taagggtcct	gggaagcctc	ctttctgctc	acagaataat	780
aactgactcc	aagcagccct	ttggtgacat	gacaattaaag	gactatgata	atgagttgtt	840
atacatggcc	catgacctgg	cggtcgcggt	cctccctgct	tttgaaaaca	ccaagacagg	900
gattccatat	cctcgggtga	atctaaagac	aggagttcct	cctgacacca	ataatgagag	960
atgcacagcg	ggagccgggt	ccctcctggt	ggaaattggg	attctgagtc	gactcctggg	1020
ggactccaca	tttgagtggg	tggccagacg	agcagtgaag	gccctttgga	acctccggag	1080
caatgatata	ggattactag	gcaatgtcgt	gaacattcag	acggggccact	gggttggaaa	1140

gcagagtggc	ctgggtggcc	ggctgggactc	cttctatgaa	tacctcttga	aatctttacat	1200
ttctcttggg	gaaaaagaag	acctagaaat	gtttaatgct	gcatacaga	gtattcagaa	1260
ctacttaaga	agagggcggg	aagcctgcaa	tgaaggagaa	ggagaccctc	cactctatgt	1320
caacgtgaac	atgttcagtg	ggcagctgat	gaacacctgg	attgactctc	tgcaggcctt	1380
tttccctgga	ctgcaggtgc	tgataggaga	tgtggaagat	gccatctgcc	ttcatgcctt	1440
ctactatgcc	atatggaaac	gatattggtgc	cctccctgag	agataatact	ggcagctgca	1500
ggccctgac	gttctctctt	accocactgag	accagagtta	gtggaatcca	catatctcct	1560
ctaccaggca	accaagaatc	ccttctacct	ccatgtagga	atggatattc	tgcagagtct	1620
ggaaaagtac	acaaaagtca	agtgtgggtg	cgccacgctg	catcacgtca	ttgacaagtc	1680
cacagaagac	cggatggaga	gcttctttct	cagtgagacc	tgtaaatatt	tgtatctgct	1740
gtttgatgaa	gacaatccag	tacacaagtc	tggaaaccaga	tacatgttca	caacagaggg	1800
acacattgta	tctgtggatg	agcatctctg	ggaaattgcc	tggaaaggaa	tcttctctga	1860
agagggaggg	caggaccaag	ggggaaagtc	tgtgcacagg	ccgaaacctc	atgagttaaa	1920
agtcattcaac	tccagctcca	actgcaatcg	tgtacctgat	gagaggagggt	actccctgcc	1980
cttaaaagagc	atctacatgc	gacagattga	ccagatgggt	ggtttgattt	gattctgctc	2040
ctgtgaggcc	tcactctgaa	ccagacctta	acgaccaaac	ccagaccatg	ccaaagtcca	2100
ctctgaaatt	aaaggggaca	agagctctgc	tgtccatggg	gggttaggaa	tttctgtgca	2160
acacctcacc	acgtctgggt	aatccttgca	cacttcagtg	tttctctcct	gttcaataaa	2220
atgccctggt	aaggatataa	tttgaagtga	gaagatacat	ggaaattgcc	ctcttatgac	2280
atggtgatgt	tataagcaca	atagatgggg	catcttttga	tgtatgttca	cagctttata	2340
cttcagaacc	taagtctctt	cacttttgctg	gcacctgtcta	tactggagta	ttgctatgtc	2400
tttaaaaaat	ttttttttat	tatattttat	ttttttgaga	cagggtcttg	atattttttt	2460
gggacagggg	tacctgggct	caagtgatcc	ttctgcctca	gcctcccgag	tagctgggat	2520
tacaggtgag	caccactgta	cctggctagc	tactttcttg	ttagaggatt	gaaaatgaaa	2580
ttcttgcaaa	agggcccatg	gttccatttg	tatccctatt	taattgcatt	gaaaatgtca	2640
tctttctgtg	tggctcataa	tttgggtctt	ccctgatgat	ccaacctgta	ttttggatca	2700
catgggagaa	aaagtcattc	agtttttcat	gtttgcctca	agtaatcttt	acagtgttac	2760
aaattatttg	cttaagaaga	atggctctaa	ccagaattct	taacagatat	tctcttaggt	2820
tatttatgta	tggctctaaga	ggttaaactga	catcttttgg	atggatattt	gcattttgaa	2880
tatgaactta	cctgaggaac	tcccatagtt	ccagaatacg	gtgcctttta	gggagagaa	2940
aatacctaag	attgtctgag	cttccactct	tctcatattt	cctaagcaag	gattctcact	3000
tatgaccata	tttgggttag	agttctgttt	tgtttctggt	ttctgtgtct	agtgcgaatt	3060
agctaaatca	gggagaaaga	aatgatcaca	tgactttttg	catccttgag	ccattctctc	3120
gtgtaataca	ggcttttagat	tagtgcccta	tattgggttt	ggtttggggc	actggatgtc	3180
gcagctactg	ctatggtttc	aggaggcctg	tttagccaca	tggtgagacc	gtgggtgaa	3240
ggggatggaa	attgcttggc	cagctcttgc	ctttcatcct	gtaaaagtaa	gcattgtaga	3300
ggaggaagtt	gtgctaaaat	gcctttgttt	ttttgttatt	attttcttag	ccagaacatc	3360
tctctttgaa	ctcacactga	tacacacctg	ctactcttac	acagctgcag	agggctgact	3420
cttagctctg	cttccatgaa	gcgtcatggg	tggaaacgca	ttctagtata	aaaggtagga	3480
aatccctaaa	acttccagcc	tcacatagca	cggttctcac	ctgtcactgt	tttccacctt	3540
ctaaggattt	catgtacatc	ttttcaaagc	tagaaataag	cactgtctaa	gtttatggtg	3600
cattttttagt	caaaaaggag	aaatcttatt	ccttcttgaa	aattttaagt	gttatgtgtt	3660
tatatagttc	agttctttga	gatttttgaa	aagagtattt	tcagtaataa	acgtgccatc	3720
tctatctctt	aaacattttt	tacaacaatt	gttttaaaat	agaaaaataa	aaatgcttct	3780
attttacott	ttttctattc	agaagcatta	ttctgtttat	taacagtgtc	ccatctactg	3840
aatagaaaac	tttgagaata	atataatat	atattttaaa	tgttttccact	gactcattga	3900
aaatgttaat	tacacacaca	tgcattgcatt	cacacacgag	cataacttga	cctttgtctc	3960
tgggcaaaac	gggtgggactg	ttagtgacc	attttgggaa	atagactcat	tcagagaagg	4020
aggtgagttc	ttctctgctg	tgattttctc	tggcgtctcc	ctcctctccc	gctctggcct	4080
ctgtggcggc	agtgggtgggt	aagcactcca	gtgttctctt	aatgaggcac	tttgcctgtc	4140
actcgagcaa	gcctgggtgt	tccttctctc	tcattgtctc	ggaataggga	atagggatct	4200
catgcttgca	aactacacaa	tgctgcaggt	gcttcccagg	ggccacaggc	tgtcaggaaa	4260
cgtgttttat	gtaaagtcac	aaacccactt	gacttctggg	tctcggaaat	aataccagtg	4320
ggtgagactg	agggtgagtg	agttagtaca	tattaatcct	ggttgttgag	cttccagact	4380
accccgctca	aagtttgatg	ctatgtagtc	agtggtttgt	ggggctggat	gccagaaggt	4440
tctttgagcc	agtttcaaag	gttacttgtt	tttttttttt	tttttttaag	tcagaatgtt	4500
aacagctgtg	atataatcctg	cagggcctttt	gcagtttctt	ct		

ggcagcgctt	gtgctggaac	ttactcattg	taactgaatc	ctcagggcct	ttcttggttt	5040
agatcatgga	ctgtgcacgt	gacacttaaa	taattttcta	tgtatttaaa	gaaaaatgca	5100
ccaggatggg	gtctgtgcac	gtgactatta	gaggagcgtc	tgtagaagta	cctgggtttg	5160
tcagtgcagt	tgtgcaatct	gagggccttg	tttccctctc	ccctttcccc	ttctccccac	5220
caaaggaaaa	tatccctctt	aatgatttct	tagttcagtt	tactgaatga	ttaccacctg	5280
taattcctct	ttggattgtg	tagactcaac	atgagacatt	cctttctgct	ttctggaggg	5340
caccaggggc	ctttctcttt	gataaatttt	ttttgtctgt	tgacaaaaac	aaaaatcttt	5400
tttcaaagt	agtgcctggg	aaaaggtagg	gctgagtgat	taccttagcc	acaggggtgg	5460
tgagcaggaa	cttttagaaga	aaatcctgag	ctttcctgtc	cattcccagc	atccagctcc	5520
tattctagt	cctcttccct	gcagggcagg	gaccccttgg	gaaatcgagg	aggtgggacg	5580
ggctggggcc	tgtgtccag	gtttcacagg	gctcaggggt	atgctcccg	ttgaatctgg	5640
acgtgaatct	ggtaaaaaata	tcaagtacct	gtggaactcc	ctgattctat	acctctctcc	5700
ttctttctgc	aaggcagagg	aataatattt	ttaaagggtt	ttttgtttta	gttttaaaata	5760
gcaaaacaca	agctgcattt	ttatttattt	tgcataagaa	aggtaaatct	ttttacaaaa	5820
aaaagtatat	agttggaaaa	tctgggaaaa	cttacggaaa	tacacaaatg	cttctctgta	5880
atgtgcaata	tgttttgcaa	ctgtagatga	tattttatgt	ttaatctgta	aataagaaat	5940
gtatttaaat	taaaagggat	ctttttgtta	aaggacaaaa	tgttctttta	taaatgtaat	6000
aaggaatatc	ttgctcttta	aaatttatta	ggatttttat	gagtaatttt	tattaaaaga	6060
tttctttttt	tg					6072

<210> 247
 <211> 5615
 <212> DNA
 <213> Homo sapiens

<400> 247						
gaaactgagg	gtgtgacccc	cccgtgggtg	ctctgggtgt	ctgcggagga	gctggggggc	60
gaagatgagg	ctaacggcct	ggcttcagtg	aacgcaccgg	gatgtgcagg	ccgggaggta	120
gaggcaggct	gatgggggag	ggaacgagca	gcctgtgaga	cggggtgacg	cgggctacca	180
gcccggggcg	gcacccgggac	tggaaagagt	gcctgagcag	ccggctgggt	cggcggccag	240
gctagggcgg	gggcgagcgc	ccagttgagc	ctgctggggc	tggaggagcg	agaaggggtt	300
tcttcacatt	tcagagcgaa	ccagacgggg	acagtaaggt	ttggagggaag	ggggatcggt	360
ggaagttagc	agaagtggag	agaatctggc	aatagacgag	aaaccgaaag	aatcagaaag	420
aagtctatgt	gagtagctga	aagcattggg	tgaccagaaa	gaaggtcggg	gtaagtgaag	480
gaagagttag	gtgtggctgg	atcaaagggc	taagagaagc	gggtctgtgt	aagtggatgt	540
gagtgaggat	caaggaaaaag	ccgtggaagt	ggccgggggt	cggggccgca	gaagtgccag	600
acggggccgg	aaagcagccg	agcggagttc	aaatttgaga	gcgtttggaa	attggaagac	660
ttggtggcga	acgaggggtc	ggacctgcac	cctgcctcag	agagttatcg	acgtatccgg	720
aatgtgggat	cagaggctgg	tgaggttggc	cctgttgagc	catctgaggc	ccttctatgg	780
tattaagggt	aagggtgtcc	gtgggcagtg	cgatcgagag	agacatgaaa	cagcagccac	840
ggaaataggg	ggtaaaaatat	ttggagtacc	ttttaatgca	ctgccccatt	ctgctgtacc	900
agaatatgga	cacattccaa	gctttcttgt	cgatgcttgc	acatctttag	aagaccatat	960
tcataccgaa	gggctttttc	ggaaatcagg	atctgtgatt	cgccataaaag	cactaaagaa	1020
taaagtggat	catggtgaag	gttgccctatc	ttctgcacct	ccttgtgata	ttgcgggact	1080
tcttaagcag	tttttttaggg	aactgccaga	gcccattctc	ccagctgatt	tgcatagaag	1140
acttttgaaa	gctcaacagt	taggcacaga	ggaaaagaat	aaagctacac	tgttgctctc	1200
ctgtcttctg	gctgaccaca	cagttcatgt	attaagatac	ttctttaact	ttctcaggaa	1260
tgtttctctt	agatccagtg	agaataagat	ggacagcagc	aatcttgagc	taatatattg	1320
accgaatctt	cttcagacaa	gtgaaggaca	tgaaaagatg	tcttctaaca	cagaaaagaa	1380
gctacgatta	caggctgcag	tagtacagac	tcttatcgat	tatgcacatg	atattggggc	1440
tgtaccagat	tttatcctgg	aaaagatacc	agccatgttg	ggtattgatg	gtctctgtgc	1500
tactccatca	ctggaaggct	ttgaagaagg	tgaatatgaa	actcctgggt	aatataagag	1560
aaagagaaga	caaagtgtag	gagattttgt	tagtggagca	ctaaataaat	ttaaacctaa	1620
cagaacacct	tctattacac	ctcaagaaga	aagaattggc	cagctatctg	aatcaccagt	1680
gattcttcta	cctaaatgcta	agcgtacatt	gccaagttag	tcttctcatg	gtttctcaag	1740
taagaaaagg	aagttccatca	agcacaattt	taactttgag	ctggttgccaa	gtaattctct	1800
caatagcagt	tctacaccgg	tatcagttca	catcgataca	agctcagaag	ggtcatctca	1860
gagttcactc	tctcctgtac	tcattgtgtg	aaaccatttg	atcactgcag	gtgtgccaag	1920
gcgaagttaa	agaattgcag	gcaaaaaagt	ttgcagagtg	gaatcaggaa	aagcaggctg	1980
cttttctcct	aaaatcagcc	ataaagaaaa	ggttcgaaag	tctctgcgtt	tgaattctca	2040
tctagggaaa	aatggcagag	aagtaaatgg	atgttctggg	gtcaatagat	atgaaagtgt	2100
tgggtggcga	cttgcaaatc	aacaaagttt	aaaaaatcga	attgaatctg	taaaaacagg	2160
tttgcttttt	agcccagatg	ttgatgaaaa	gtttaccaaag	aaaggttcag	aaaagatcag	2220
taagtctgag	gaaaccttac	taactccaga	gcgactagtt	ggaacaaatt	accggatgtc	2280

ttggacagga	cctaataaact	caagttttcca	agaagtagat	gcaaatagaag	cttctttcaat	2340
ggtggaaaaat	cttgagggtag	aaaactcttt	ggagcctgat	attatggtag	aaaagtcacc	2400
tgctactttca	tgtgaaactca	ccccttccaa	tttaaaacaat	aagcataata	gcaacataaac	2460
aagtagccct	cttagcgggg	atgaaaaataa	catgacccaaa	gagacttttg	tgaaagttca	2520
aaaagcggtt	tctgaatctg	gaagtaatct	tcacgcattg	atgaatcaga	ggcagtcac	2580
agtaactaat	gtggggaaaag	taaaattaac	tgaaccatct	tatttagaag	atagcccaga	2640
ggaaaaatcta	tttgaaaacta	atgatttgac	tatagtagaa	tcaaaggaga	aatatgaaca	2700
ccacactggg	aaagggtgaaa	aatgtttttc	agagagggac	ttttcacccc	ttcaaaactca	2760
aacattttaat	agagaaaacaa	ctataaaaatg	ttattcaact	cagatgaaga	tggaacatga	2820
aaaagacatt	cattcaaaata	tgccaaaaga	ttattttaagc	aagcaagaat	tctocagtg	2880
tgaagaaata	aagaaacagc	agtccccc	ggataaaacta	aataataaat	taaaagagaa	2940
tgagaatatg	atgggaaggta	acttaccgaa	gtgtgcagca	catagcaagg	acgaggctag	3000
atcctctttc	tcacagcaga	gtacatgtgt	tgtaacaaac	ttgtcaaaac	ctaggcctat	3060
gagaattgct	aaacagcag	cattggaaac	atgtgagaaa	acagtttctg	aaagttcaca	3120
aatgacagaa	catagaaagg	tttctgatca	catacagtg	tttaacaagc	tttctttaaa	3180
tgaacccaaat	agaataaaaag	tcaagtcacc	tcttaagttt	cagcgtactc	ctgttcgtca	3240
gtccgtcaga	agaatttaatt	ctttgttgga	gtatagcaga	caacctacag	ggcataaagt	3300
ggcgagtctt	ggtgatacag	cttctccttt	ggtcaaatca	gtgagctgtg	acggtgctct	3360
ttcctcttgt	atagaaagtg	catcaaaaga	ttcctctgtt	tcatgtatca	aatcagggtcc	3420
taaagaacag	aagtccatgt	catgtgaaga	gtcaaatatt	ggtgcaattt	caaagtcaag	3480
catggagttg	ccctcgaaat	ctttctttaa	gatgaggaag	caccagatt	cagtgaatgc	3540
ttctcttagg	tctactacag	tttataaaca	gaagatctta	tctgatggcc	aagttaagg	3600
tcccttggat	gatctgacta	atcatgatat	agtaaaacca	gttgtaaata	acaacatggg	3660
catttcttct	gggataaata	acaggtctct	taggagacca	tcagaaagag	gaagggcctg	3720
gtacaaaagg	tctccaaaac	atcctatcgg	aaaaactcaa	ttactacca	caagtaaaac	3780
tgtagatttg	taatttggtaa	atgtttact	tgctattaat	gtaaaataaag	tgagtaattg	3840
gtatgacttg	caggatgatg	tacatgttag	ttttagctc	aggatgattg	ttaagcaata	3900
gatttgctct	attgaaaatg	tttcattttt	ttcactgtac	aagcaactta	gattttttatt	3960
tgtacaaaat	acttctttgt	ttttcttaat	gatggcaatt	tttaaaacttt	aatttttattg	4020
tgatctctta	aagcagaggt	tagactttac	ctttctgact	ctgtcgtcca	ggctggagtg	4080
cagtggcgca	atctcactgc	aagctccact	tccctgggttc	atgccatttt	cctgcctcag	4140
cctcccgagt	agctgggact	acaggtgccc	gccaccacgc	ccagctaatt	ttttgtattt	4200
ttagtagaga	cggttttcacc	gtgttagcca	ggatgggtctc	gatctcctga	ccttgtgatc	4260
cgcccgctc	agcctcccaa	agtgtctggg	ttacaggcat	gagccaccac	gcccggctag	4320
actttacctt	tctaaagaaa	ttgtttactg	gatttataag	aagtttaattt	ttgaaaatga	4380
catatttttg	tgtgatagaa	agaatggagc	aagttgtgcc	tatttcctcc	aagtcagata	4440
aggtttctaa	aataaaataaa	tttctagcat	ataaaagggt	gagataaaact	ctgcaaatct	4500
tatgtctgga	attatattaa	tgtttattgt	ccttgccaaa	attcctagaa	attaatttcc	4560
ttcaatagca	tcctaaact	ctatttttat	ttggggcaga	gtaatttcat	ttatagtgc	4620
agtaggtgta	actcgaacta	actcgaacta	agaacaatgg	ttaaggcaga	ataatgacta	4680
aaatatgttc	atatattatg	atgtggaaat	aattgataac	ttttaagcca	tactatgttt	4740
ttaaagataa	tttgcacaaa	cacgtttgtg	tctgttctgt	ccaatataga	tttggcaatt	4800
atttaaagag	ggataatctt	gaaaaaaat	aaccaagggt	atttcttata	tgtagatgct	4860
cgattttgga	atttgaaata	gtagatgcac	ctctttacct	tttttacttg	gataaaaaacc	4920
tatgatgttg	ttgtcctgtg	tgtaaatgtt	atttatttag	catagacatt	aaagataact	4980
ctctggaaaa	tgacttgact	aaggctctca	tgaaattcaa	agtgccattt	agaacatgca	5040
ccaaattgtc	aagtaaatct	gtctaaat	atatttttaa	ttattacaaa	ttacacatct	5100
ttgaggaaaag	agtatttatga	acaatagaac	atattctcta	ggttgtagag	gaaggaaata	5160
gcagacagaa	tcaaccacta	aaggtagttt	ttcagattgg	ttgttagaat	gtcatgttta	5220
gatgttgagg	cagatttagag	cagcattcat	gccactcgga	gcaaccagac	ttacagcata	5280
agtatgtacg	aggaattttca	aatcatcaga	tgtttgcttg	gctagggtct	actttgttta	5340
tttgatatca	aatagggttg	tagatgttta	tggcattttct	aattgtaagt	agagacaaaa	5400
tattcatata	gtcagatata	tgttgtctgc	tttaaaacaat	ttttaaattt	taaaaatgca	5460
ttaacgtctt	tttatatcca	tcaagggaag	gatgaaatgt	tgaatttgaa	gactaattca	5520
gtaagaagtc	ctaggggttt	aactgtacat	actacctgaa	ctggcttttc	tgagagatga	5580
atcaataatg	aaacatgtct	gttttaaaaa	ctacc			5615

<210> 248
 <211> 5298
 <212> DNA
 <213> Homo sapiens

<400> 248
 ggccgcccagac cccagccacc gccctgcggc cagcgcgtcc cccgactcgc cggccgggaga 60

ccccgaggct	ccaacgagtt	cagaaatgtc	cagaaatgac	aaagaaccgt	tttttgtgaa	120
gttttttaaag	tcttcagaca	attccaaatg	ttttttttaa	gctctcgagt	ccataaaaaga	180
attccaatca	gaagaatatc	ttcagattat	tacagaagaa	gaggcattga	agataaaagga	240
gaatgataga	tcactttata	tctgtgaccc	tttttagtggc	gttgtctttg	atcacctcaa	300
aaagcttggc	tgcagaattg	ttggctccta	agtagtcata	ttttgtatgc	accaccagcg	360
atgtgtccca	agagccgaag	atccagttta	taatatgggt	atgtctgatg	taaccatata	420
ttgtacaagt	ctggaaaaag	aaaaaaggga	agaagttcat	aaatatgtac	aaatgatggg	480
cggacgagta	tacagagacc	ttaatgtatc	agtaactcac	cttattgcag	gagaagttag	540
tagcaaaaaa	tatttagattg	ctgcaaacct	gaagaaacct	attttgcttc	cctcttggat	600
aaaaacactt	tgggagaagt	cacaagagaa	aaaaataact	agatatactg	atataaacat	660
ggaagatttc	aagtgtccta	tttttcttgg	ttgcataatc	tgtgtgactg	gcttatgtgg	720
cttagacagg	aaagaagttc	agcaactcac	agttaagcat	ggaggtcaat	acatgggaca	780
attgaaaatg	aatgaatgta	cacacctcat	tgtgcaagaa	ccaaaaggtc	agaagtatga	840
gtgtgccaa	agatggaatg	tacactgtgt	gaccacacag	tggttttttt	acagtattga	900
gaaaggtttt	tgtcaggatg	aatccatata	caagacagaa	cctagaccag	aagcaaaagc	960
tatgcccgaat	tcttcaactc	ctaccagcca	gatcaacaca	attgatagtc	gtactctttc	1020
agatgtcagc	aatatattcca	acataaaatgc	aagttgctga	agtgaatcaa	tatgtaattc	1080
acttaacagc	aaactggagc	ctacacttga	aaatctagaa	aatctggatg	tcagtgcatt	1140
tcaagcacct	gaagatttat	tagatggttg	tccgatatat	ctttgctggt	ttagtggcag	1200
aaagctagat	aaactgagaa	gacttattaa	cagtggagggt	ggagttcgtt	ttaaccagct	1260
aaatgaagat	gtaactcatg	ttattgtggg	agattatgat	gatgaattga	agcagttttg	1320
gaataaatca	gcccacaggc	ctcatgtagt	gggagcaaa	tggttgctag	agtgtttcag	1380
taaaggttat	atgctttctg	aagaaccata	tatccatgct	aattaccagc	cagtggaaat	1440
tccagtttca	catcagcctg	aaagtaaagc	agctctttta	aaaaagaaga	acagcagctt	1500
ctctaagaaa	gactttgctc	ctagtgaaaa	cttagtagcaa	gctgatgaag	atctgctctc	1560
tcaatatgaa	aatggtagct	ccacagtagt	tgaggctaag	acgtctgaag	ccaggccctt	1620
taatgattct	actcatgctg	agcccttgaa	tgattctact	cacatttctt	tgcaagaaga	1680
aaaccagctc	tctgtcagtc	attgtgtccc	tgtattttct	acaattactg	aagaaggctt	1740
atthagccaa	aagagtttcc	ttgttttggg	ttttagttaat	gaaaatgaat	ctaacatcgc	1800
aaacatcata	aaagaaaaatg	ctgggaaaaa	catgtccctt	ctgagcagaa	ctggtgcgga	1860
ttatgctgtg	gttccctctgc	tggggtgtga	agtggaaagcc	actgtgggag	aagttgttac	1920
aaatacatgg	ctggttactt	gcatagacta	tcagactttg	tttgatccaa	agtcgaatcc	1980
tctcttcaca	ccagttccag	taatgacagg	aatgactcct	ttagaggatt	gtgttatttc	2040
atthagccag	tgtgtctggg	cagaaaaaga	gtcttttaaca	ttcctagcaa	acctccttgg	2100
agcaatgtgt	caagaataact	ttgttcgcaa	atccaatgca	aagaaaggca	tgtttgccag	2160
tactcatctt	atactgaaag	aacgtgggtg	ctctaaatat	gaagctgcaa	agaagtggaa	2220
tttacctgcc	gttactatag	cttggctgtt	ggagactgct	agaacgggaa	agagagcaga	2280
cgaaagccat	tttctgattg	aaaattcaac	ttaagaagaa	cgaagttagg	aaacagaaat	2340
aacaaatgga	attcaatctaa	attcagatac	tgcagagcat	cctggcacac	gcctgcaaac	2400
tcacagaaaa	accgtcgtta	cacctttaga	tatgaaccgc	tttcagagta	aagctttccg	2460
tgctgtgggt	tcacaacatg	ccagacaggt	cgcagcctcc	ccagcagtag	gacaaccact	2520
tcagaaggag	ccctcgttac	acctggatag	accatcaaaa	ttcctgtcca	aggacaaact	2580
cttcaagcct	tccctttgatg	tgaaggatgc	acttgcagcc	ttggaaaactc	caggacgtcc	2640
cagccaaacg	aaaaggaaac	cgagtacgcc	actctcagaa	gttattgtca	aaaacttgca	2700
acttgcctttg	gcaaatagct	ctcgaaatgc	tgtcgtctct	tctgccagcc	ctcaactgaa	2760
agaggcccag	tcagagaagg	aagaagcccc	aaagccactt	cacaaagttag	tggatatgtg	2820
tagtaaaaaa	ctcagtaaga	agcagagtga	actaaatggg	atcgcagcct	ctctaggagc	2880
agattacagg	tggagttttg	atgaaacagt	gactcatttc	atctatcaag	ggcggccaaa	2940
tgacactaat	cgggagtata	aatctgttaa	agaaaagagga	gtacacattg	tttccgagca	3000
ctggctttta	gatttgtccc	aagagtgtaa	acatcttcct	gaatctcttt	atccacatac	3060
ttataatccc	aaaatgagct	tggatatcag	cgcagtgcga	gatggccggc	tctgtaatat	3120
tcgactactc	tcagctgtgt	cttcaacaaa	ggatgatgag	ccagatcctt	tgattttaga	3180
agaaaatgat	gtagacaata	tggccaccaa	taataaaagag	tcagcaccat	caaatggaag	3240
tggaaagaat	gactctaag	gagttctgac	acagacotta	gagatgagag	agaactttca	3300
gaagcagtta	caggagataa	tgtctgcaac	atcaatagtg	aaacccccaa	ggcagaggac	3360
ttccctttca	agaagtgggt	gtaacagcgc	atcttcaaac	cctgacagca	ctcgctctgc	3420
tcgcagtgga	cgaagttagg	tcctagaggc	actgaggcag	tctcgtcaga	cagtacctga	3480
tgtcaacaca	gagcctttccc	aaaatgaaca	gatcatttgg	gatgacctta	cagcaaggga	3540
ggagagagca	aggcttgcca	gcaatttgca	gtggcctagt	tgtcccacac	aatactctga	3600
gcttcagggt	gacattcaaa	acttggagga	ttctcctttt	caaaagcctt	tacatgatcc	3660
agaaattgct	aaacaggctg	tctgtgatcc	tggaaaacata	cgtgtgactg	aagctcccaa	3720
acacccaatc	tctgaagaac	tggaaaactcc	cataaaaagac	agccacctga	ttccctacgc	3780
tcaagccccc	agtattgcct	ttccactcgc	caacccccct	gtggctccgc	accttagaga	3840
aaagattata	acgatagagg	agactcatga	agaattaaaa	aaacagtaca	tatttcagtt	3900

atcatctctg	aatcctcaag	aacgtattga	ctattgtcat	ctgattgaga	aactaggtgg	3960
attgggtgata	gaaaagcagt	gctttgatcc	cacctgtaca	cacattgttg	tgggacatcc	4020
acttcgaaac	gagaagtatt	tagcctcagt	ggcagctggg	aagtgggtgc	ttcatcgctc	4080
ctaccttgaa	gcctgcagga	ctgctggaca	cttcgtgcag	gaagaagact	atgaatgggg	4140
aagtagttcc	atacttgatg	ttttgactgg	aatcaatgta	cagcaacgaa	gactagcact	4200
tgcagcaatg	agatggagaa	aaaaaatcca	gcaaagacaa	gaatctggca	ttgttgaggg	4260
agcattttagt	gggtggaagg	ttattttaca	tgtggatcag	tctcgagaag	caggcttcaa	4320
acgccttctt	cagtcaggag	gagcaaaggt	gctacctggg	cattctgtac	ctttatttaa	4380
agaggccaca	catctttttt	ctgacttgaa	taaactgaaa	ccagatgact	caggagttaa	4440
tatagcagaa	gctgctgccc	agaacgtgta	ctgcttgaga	acagaatata	ttgctgatta	4500
tctcatgcag	gaatcacctc	ctcatgtaga	aaattactgt	ctaccagaag	ctatttcatt	4560
tattcagaat	aataaggaac	ttgggactgg	attatcacaa	aagaggaaag	ctcctacaga	4620
aaaaaataaa	atcaaacgac	ctagagtaca	ctaactgcag	ctacccttta	gttaccaaac	4680
attaaatggt	tttaaaaaat	gaaagcctga	atgtgactgt	gatagatttg	ggtagtaatt	4740
taaagatgag	tacctgaaga	attctgcttc	agagtataat	gatgaccttc	cttgagtttt	4800
gaacacctga	aattgttaatc	actgaaatat	taactgtttc	ttaataaaaa	gttacctgaa	4860
ataacaacaa	aatacaactc	ctcagctagc	ttgctgttaa	accacattga	agtctgttaa	4920
aagatatttta	tttttcttgt	aaatatctga	agctgttagct	tagtggaaat	tttagcaagg	4980
taatggattt	tgtcttataa	tgtctgcctt	acaaattcat	aacaacaaga	tttgtcagtc	5040
agcattttat	catgtttttc	ctgattttta	tcttctcacc	attttacctc	ttttaacagg	5100
agcctgagca	caagggttaa	tgaggaagct	ggggctataa	atatgtgtgt	atatatgtat	5160
atgtatgttt	gtacaaatct	ccatgatgtt	tgccaagttt	gaatgcgcaa	aacttggaaa	5220
atgtgacaat	aaagaataaa	agtagtaact	caaattagta	ttaagatgtg	tttaccataga	5280
taaatttttt	aaaagagc					5298

<210> 249
 <211> 1584
 <212> DNA
 <213> Homo sapiens

<400> 249						
gcgcctcggc	ctagcatgtc	ggaagcgggc	gaggagcagc	ccatggagac	gacgggcgcc	60
accgagaacg	gacatgaggc	cgtccccgaa	gcgagtcgcg	gccggggctg	gacgggcgcc	120
gcggcggggc	tggaggcgcg	accgcccgcg	ccccgagcgg	gaatcagaac	ggcgccgagg	180
gaccagatca	acgccagcaa	gaacgaggag	gacgcgggaa	aaatgttcgt	tggtggcctg	240
agctgggata	ctagcaaaaa	agatttataa	gactatttta	ctaaatttgg	agaggtcggt	300
gactgtacaa	taaaaatgga	tcccaacact	ggacgggtcaa	gagggtttgg	gtttatcctg	360
ttcaaaagatg	cagccagttg	ggagaagggtc	ctagaccaga	aggagcacag	gctggatggc	420
cgtgtcattg	accctaaaaa	ggccatggct	atgaagaagg	accgggtcaa	gaaaaatctt	480
gttgggggtc	tgaatcctga	aagtcgccact	gaggaaaaga	tcaggagagta	ctttggcgag	540
tttggggaga	ttgaggccat	tgaattgccca	atggatccaa	agttgaacaa	aagacgaggt	600
tttgtgttta	tcacctttta	agaagaagaa	cccgtgaaga	aggttctgga	gaaaaagttc	660
catactgtca	gtgggaagcaa	gtgtgagatc	aagggtggccc	agcccaaaga	agtctatcag	720
cagcagcagt	atggctctgg	gggcccgtgga	aaccgcaacc	gagggaaccg	aggcagcgga	780
ggtggtggtg	gagggtggagg	tcagagtcag	agttggaatc	agggctacgg	caactactgg	840
aaccagggct	acggctacca	gcagggttac	gggcctggct	atggcggcta	cgactactcg	900
ccctatggct	attacggcta	cggccccggc	tacgactaca	gtcagggtag	tacaaactac	960
ggcaagagcc	agcgacgtgg	tggccatcag	aataactaca	agccatactg	aggcggccaa	1020
gggagcgacc	aactgatcgc	acacatgctt	tgtttggata	tggagtgaac	acaattatgt	1080
accaaaattta	acttggcata	ctttctattg	cctgtcccat	gtgcatctta	tttaaaattt	1140
cccccatgga	aatcactctc	ctggttgacta	tttccagagc	tctaggtgtt	taggcagcgt	1200
gtggtgtctg	agaggccata	gcgccatcat	ggcgtgattt	ttattaccag	gtcccccaga	1260
agcaggtgag	aggctctgct	tcctgctgcc	gctctgcagc	ctggacctgt	ggaccctggg	1320
tgtaaaagagt	aaattgtatc	ttaggaaacc	agtgtcacct	ttttttcacc	ttttaatttt	1380
atattattttg	cgtcatacat	ttcctgtaac	ggaagtgtta	attttactgt	acttttttgg	1440
acccctttttg	ggaactataat	gtattgttaag	gtattttaca	cgtgtcctga	ttttgcccaca	1500
acctggatat	tgaagctatc	caagctttttg	aaataaaaat	taaaaacccc	aagcctgggt	1560
gagtgtggga	aaaaaaaaaa	aaaa				1584

<210> 250
 <211> 1121
 <212> DNA
 <213> Homo sapiens

<400> 250

ggaattccct	atagagccgg	gtgagagagc	gagcgcccg	cggcggtgt	cgagggcg	60
ttgcctcg	ctgaccttc	ccgcccct	tctcgtcaca	caccaggtcc	ccgcggaagc	120
cgcggtgtcg	gcgccatggc	ggagctgacg	gctcttgaga	gtctcatcga	gatgggttc	180
cccaggggac	gcgcgagaa	ggctctggcc	ctcacaggga	accagggcat	cgaggctgcg	240
atggactggc	tgatggagca	cgaagacgac	cccgatgtgg	acgagccttt	agagactccc	300
cttgacata	tcctgggacg	ggagcccact	tcctcagagc	aaggcgccct	tgaaggatct	360
gcttctgctg	ccggagaagg	caaaccgcgt	ttgagtgaag	aggaaagaca	ggaacaaact	420
aagaggatgt	tgagagctgg	ggcccagaag	cagcgggagc	gtgaagaaag	agaggaaagg	480
gaggcattgg	aacgggaacg	gcagcgacgg	agacaagggc	aagagttgtc	agcagcacga	540
cagcggtctac	aggaagatga	gatgcgcggg	gctgctgctg	aggagaggcg	gagggaaaat	600
gccgaggagt	tagcagccag	acaaagagtt	agagaaaaga	tcgagaggga	caaagcagag	660
agagccaaga	agtatggtgg	cagtgtgggg	tctcagccac	ccccagtggt	accagagcca	720
ggtcctgttc	cctcttctcc	cagccaggag	cctcccacca	agcgggagta	tgaccagtgt	780
cgcatacagg	tcaggctggc	agatggggac	ctactgacct	agacgttccg	ggcccgggaa	840
cagctggcag	ctgtgaggct	ctatgtggag	ctccaccgtg	gggaggaact	aggtgggggc	900
caggaccctg	tgcaattgct	cagtggcttc	cccagacggg	ccttctcaga	agctgacatg	960
gagcggcctc	tgacaggagc	gggactcggt	ccttctgctg	ttctcattgt	ggccaagaaa	1020
tgtcccagct	gagggccttt	gtcccattgt	ccctctgtga	cccttctc	tttgataaag	1080
cactgacatc	tccttccata	taaataagacc	ctgagttctg	t		1121

<210> 251

<211> 2337

<212> DNA

<213> Homo sapiens

<400> 251

ggagcgccca	acatggcgga	acgcaggaga	cacaagaagc	ggatccagga	agttgggtgaa	60
ccatctaaag	aagagaaggc	tgtggccaag	tatcttcgat	tcaactgtcc	aacaaagtcc	120
accaatatga	tgggtcaccg	ggttgattat	tttattgctt	caaaagcagt	ggactgtctt	180
ttggattcaa	agtgggcaaa	ggccaagaaa	ggagaggaag	ctttattttac	aaccagggag	240
tctgtggttg	actactgcaa	caggctttta	aagaagcagt	tttttcaccg	agccctaaaa	300
gtaatgaaaa	tgaaatatga	taaagacata	aagaaagaaa	aagataaagg	aaaagctgaa	360
agtggaaaaag	aagaagataa	aaagagcaag	aaagaaaata	ttaaaggatga	gaagacaaaa	420
aaagaaaaaag	agaaaaaata	agatggtgaa	aaggaagaat	ccaaaaagga	ggaaactcca	480
ggaactccta	aaaagaagga	aactaagaaa	aaattcaaac	ttgagccaca	tgatgatcag	540
gtttttcttg	atggaaatga	ggtgtatgta	tggatctatg	acccagttca	ctttaaaaaca	600
tttgtcatgg	gattaattct	tgtgattgca	gtaatagcgg	ccacctcttt	ccccctttgg	660
ccagcagaaa	tgagagtagg	tgtttattac	ctcagtgtgg	gtgcaggctg	ttttgtagcc	720
agttattctt	tccttgctgt	tgctcgatgc	attctatttc	tcattcatttg	gctcataact	780
ggaggaaggc	accacttttg	gttcttgcca	aatctgactg	ctgatgtggg	cttcattgac	840
tccttcaggc	ctctgtacac	acatgaatac	aaaggaccaa	aagcagactt	aaagaaagat	900
gagaagtctg	aaacccaaaa	gcaacagaag	ctcgacagtg	aggaaaagtc	agacagtggg	960
aaaaagggaag	atgaggaggg	gaaagtagga	ccaggaaaatc	atggaaacaga	aggctcgggg	1020
ggagaacggc	attcagacac	ggacagtgc	aggaggggaag	atgatcgatc	ccagcacagt	1080
agtggaaatg	gaaatgattt	tgaaatgata	acaaaagagg	aactggaaca	gcaaacagat	1140
ggggatttgt	aagaggatga	ggaagaggaa	aatgatggag	aaacacctaa	atcttcacat	1200
gaaaaatcat	aatctgacta	attttgggac	tgaatgaata	agtacaagag	gttggatttt	1260
ctatgttggc	tgattaccat	atttgaacaca	tggcatttgt	agcattcttt	aaatctatct	1320
actgaaatgt	atttgacatt	caggcagtta	tattcggtcc	ttcattttat	agaatattgg	1380
cactattatt	ggtacagttt	aaagccatta	atatgtttta	tccattttgat	aatttttacag	1440
taagtaggtc	tcatttcattt	tgacagttat	caaagatgta	ctttccacag	ttaaattttac	1500
attaatggca	atttttgata	gtttttatggc	tttttactgt	tagactaatc	aaaaataact	1560
ttaaaaggaa	caaagaaact	ccaacatttc	acattatgca	tagttatgta	gccattttcac	1620
agttttcttta	agatgtgtaa	actcattgtc	cttgatagtt	tttattttttc	attataaaaat	1680
tataccagga	gattttctttt	aagattctga	gttagcagag	ttcaaaacta	ttttgtggaa	1740
acaagccaac	tagtaacaat	gcagcaaac	ttctgggtta	gctaaattat	ttttccaatg	1800
taggaaatcc	acactgattt	gtacgtctga	ctgacagaaa	gatggctcgtc	tccagcagag	1860
aaagtgaaca	gcatttggtg	gaagggtgatg	gctctccctc	ctccctcccc	atttcattgg	1920
cgtaacgtaa	agtgtattct	gtacataatt	tacaaaataa	acatttttatt	ttaattgtta	1980
cttattattt	agatattttc	caacacttaa	attcataaaa	ttaagaccat	gtaaggggat	2040
gttttttagag	aaatgggaagt	ttgagtaacc	cacagaacat	ctgtgatctt	tctacagcag	2100
cttccagttt	gtgccaacat	tccatgtatt	ttgaatatga	gcaaaaactg	atcttaagag	2160
cagacttaaa	gtagctttgt	acgccttaat	gttcattttg	atttattttta	aattctttaca	2220

ttcagaaatg	agatactgta	ttatcagacc	aggaggcatt	gctgtgaaag	ataatttcct	2280
attctaaaa	atcaaattta	aaataaagat	aatgaaagaa	aaaaaaaaa	aaaaaaa	2337

<210> 252
 <211> 3380
 <212> DNA
 <213> Homo sapiens

<400> 252	gtgcacttct	gtggcctact	caccctccac	cgggagccag	tgccgctgaa	60
gcacaccatg	gtgagcgtga	acattttacga	gtttgtgggt	gggtgtgtctg	caactttgaa	120
gagtatctct	gaggagaaag	ttccttttggga	ggccttcttt	gtgttcccca	tggatgaaga	180
ctacgagaat	tacagctttg	aggccttggt	ggatgggaag	aaaattgtag	cagaattaca	240
ctctgctgtt	aaggcccgca	ccaactatga	gaaagccatc	tcccagggcc	accagggcctt	300
agacaagatg	ggggacagca	gctccagggg	tgtcttctct	tgcaatgtgg	gtaacctcca	360
cttattggag	aaggcggcag	tcaccctgaa	gtatgtgcag	gagctgcctc	tggaaagcaga	420
acctgggtcg	cgctttgtgc	tcccagctgt	cctgaatcct	agataccagt	tctctgggtc	480
tggggctctg	agttgcctta	atgtgaagac	tcctatagtc	cctgtggagg	acctgcccta	540
gtctaaggac	atggctcgcca	ccatagattc	ccagcatggc	attgagaagg	tccaatccaa	600
cacactcagc	agtcctaccg	agtacctagg	agaggacaag	acttctgctc	agggttccct	660
ctgccccctg	cacaagtttg	atcgggacgt	ggaactcctg	atttactaca	atgaggtgca	720
ggctgctgga	gtgggttttg	agatggggat	gcctaacatg	aagccaggct	atttgatggg	780
tacccccagc	gcaatgggtg	gtttctatcc	aaatatccca	gaagatcaac	catcaaatac	840
agatccatct	tttatctttc	tcattggaccg	ctcgggaagt	atgcagagcc	ccatgagtag	900
ctgtggagag	tctcgctgcg	aatacaggga	gccaaggaaa	cactgatttt	gctgctgaag	960
ccaggatata	taggctgtta	tttcaacatc	tatggatttg	gctcttccca	tgaggcatgc	1020
agtttaccta	gtgtgaagta	cactcagcaa	acaatggagg	aggctctggg	gagagtgaag	1080
tttccggaga	ccgacctagg	gggcactgaa	atcttggcac	cactccagaa	catttacagg	1140
cttatgcagg	tcccaggcca	ccccctacag	ctttttgtct	ttacagatgg	agaagttaca	1200
ggaccctcca	gtgtaattaa	agaagttagg	atcaacagac	agaaacacag	gtgtttctca	1260
gacacgttta	gagaaggcac	ctccaccagc	ctaataaaaag	gtattgcccg	ggcatcaggg	1320
tttggttattg	aattttatcac	aggcaaaagac	aggatgcagt	ccaaggctct	caggactctg	1380
ggcacctcag	tgacagcctg	ggtagaggat	gtctctctga	gctggcattt	gcctcctggg	1440
aaacgcctct	aaatgctttc	cccagaacag	actgtcatct	ttaggggtca	gagattaatc	1500
ctgtctgcta	agctgaccgg	gaggatgcca	gcagcagaga	caacaggaga	agtatgcctc	1560
agctatgccc	tccagggcaa	gacttttgag	gataagggtg	catttctctc	acaacccaag	1620
aaatatacac	acctcaccat	tcaqcgctct	gctgccaaag	ccttgctcca	gaccaaggac	1680
cctgatgtca	gggagactcc	agcaagtgat	aaaaaagatg	cattgaacct	tagccttgag	1740
atgggcctca	ttaagctcctt	cacagctttc	attgctatca	ataaggagct	caacaagccg	1800
tctgggtgca	ctctggctca	tagggacgtc	ccaaggccaa	ttctgttggg	tgcttctgcc	1860
gttcaggggc	taaaatgccca	atcagggttt	cgaaaggcct	tacactctga	ccgtcctcct	1920
ccattgaaga	agcccagagg	ggaacttatg	tgttataagg	ccaagacatt	ccagatggac	1980
tctgcatctc	tctgtgggtt	gataagtac	aaggaccagc	acagtccagg	ctttggagag	2040
gattacagtc	tgacagctgat	ttaccaccaa	aatgcaaaatg	gttctctggga	tctgaatgaa	2100
aatcaccttg	agatcttagg	tatgagtttg	gaagaaataa	tggctgcaca	gcctgccgag	2160
gatctcagga	cctcaggctg	ggccaccatc	ctggcctgga	tctggctgca	cagcaatggg	2220
cttgtggatt	agtgtgaatg	ggagcttctg	gaaaggaagg	ccgtggcctg	gatgcgtgcc	2280
aaggacttga	ccaccatgcc	ttcggtttg	aaagctgcta	ttactttcct	gaagtcatct	2340
catgcaggct	ctatctttgc	cttttgaaaga	taccatccag	aaaaagaagt	gcctttaatt	2400
gtggatcctg	atttctctca	gtatcacttt	tgctgtgatg	atgtgttctt	gtgtattata	2460
tgctactgtc	ttttgccata	aaagtaaagg	atgcttactc	cacttcgctt	ctctgctcca	2520
actctttatt	ggatatgatc	tttcttttcc	caacatatgc	cctcagaaaa	gtgacagtgg	2580
gggttcacttt	tattcccttt	cctgagggag	ttcaaaaacat	tcattaggcag	taatgttctt	2640
tcccagaacc	ccaggggaaa	aacatgaaaa	acaggtgaca	tgaactacag	actaaaagatt	2700
cccaggggtt	tgttagagaa	tgcttgaatt	agagaatatt	ctgcattatc	tttgtctgtt	2760
gcagcattta	cttatatact	tatcagggcc	atactggtaa	gcttgcttag	gaggagttag	2820
cactttctat	aaagccaaca	tctggatcaa	tgtaattgtc	agatcacaaa	gacagagact	2880
aggggaagt	actgtgagag	gtgacactgt	tggggacctt	cctgattcat	tcttcttggg	2940
gcaggggtcc	ctgtacaacc	tacatgtctt	ttcttccact	gootgaaaga	cttgggttga	3000
ctttgtctagc	ttggagagag	atgttctctt	ttaatcatga	aacaccttaa	gaagtctata	3060
actataactg	tagtccctacc	ctgaacctat	gtgtcctcta	agtcaggccc	tgatctagt	3120
atgcaatcct	aagggtgggc	ttaatgggag	ctttgcctgg	gacctgaacc	tggagcactt	3180
cagtaaaagg	gaagaaagga	gctccccgta	atcgttccct	acccttgtgt	ctcatatacc	3240
accgcattag	ggaaatgac	tattttgata	tgctgtccct	taaaataaact	tgtatcaata	3300
ctatcttggt						

ttaaaatgac tattttctacc cttttaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 3360
 aaaaaaaaaa aaaaaaaaaa 3380

<210> 253
 <211> 6823
 <212> DNA
 <213> Homo sapiens

<400> 253
 ggccggacaaa acgccaggcg gatctcagaa ggccagttca aagacgagat catcagatgt 60
 tcattcatct ggatcttcag atgcacatat ggatgcattt ggaccctcag atagtgatat 120
 gccaaagtcgg acacgacctt agagcccaag aaaacataat tataggaatg aaagtgcccg 180
 tgaaagccttt tgtgattctc ctcatcagaa tctctcaaga cctcttcttg aaaacaaact 240
 taaagcattc agtattggaa aaatgagtag agctaagcga actttaagta aaaaggaaca 300
 ggaagaatta aagaaaaagg aggatgaaaaa ggccagctgct gagattttatg aggagtttct 360
 tgctgctttt gaaggaagtg atggtaataa agtgaaaaaca tttgtgctgag ggggtgttgt 420
 taatgcagct aaagaagaac atgaaacaga tgaaaaaaga ggtaaaatct ataagccatc 480
 ttcaagattt gcagatcaaa aaaatcctcc aaatcagttc tccaatgaaa gaccaccatc 540
 tcttcttctg atagaaacca aaaaacctcc acttaaaaaa ggagagaaaag aaaagaaaaa 600
 aagcaatttt gaactcttca aagaagaatt aagcaaaatt caagaggaac gtgatgagag 660
 acataaaaaa aaaggcagat taagtcgatt tgaacctctt cagtcagatt ctgatggtca 720
 gcgtcgttct atggacgctt cttcaagaag aaatagatca tctgggtgtt ttgatgatta 780
 cgcacctggc tcacatgatg taggagatcc aagcactact aattttatacc ttggaaacat 840
 taatccacag atgaatgaag aaatgctgtg ctagaactga tgaagaaaga gccagagaga gaaattgcgg 900
 cagtgtgaaa atcatgtggc gaagagatgc tgaaagagct ttaaaaaatt tgaatggaaa 1020
 aatgattatg tcttttgaaa tgaagttagg ttggggtaaa gctgtacctt ttcctccaca 1080
 tccaatatac attccgcctt ctatgatgga acatacgtt ccccccacct catccggact 1140
 gccttttaat gcgcagccta gagagcgggt aaaaaaccc aatgctccta tgttaccgcc 1200
 acctaaaaaa aaagaggatt ttgagaagac tctgtcgcaa gccatagtca aagtggttat 1260
 cccaacagaa aggaatttgc tcgccctgat acatcgaaat atagagtttg ttgtacgtga 1320
 agggccaatg tttgaagcta tgattatgaa cagagaaatc aacaatccta tgttcagggt 1380
 cttatttgaa aaccagacac cagcccattg ttactatagg tgggaagctt attctattct 1440
 gcagggagat tctccaacta aatggcggac ggaagatttt cgtatgttca aaaatggatc 1500
 tttttggagg ccaccaccat taaatccgta cttgcatgga atgtcagaag agcaagaaaac 1560
 agaagctttt gtagaggaac ctgagtcact aaggaaacat gatattggag atgcaatggg 1620
 attggaagaa atcttgctgg gattaaactc aaggaaaaat gatattggag atgcaatggg 1680
 tttctgtctt aataatgctg aagctgctga agaaatagtg gattgcatta ctgagtcgtt 1740
 gtccatctta aagacacccc ttcctaaaaa gattgccaga ttatatttgg tttctgatgt 1800
 tttgtacaac tcttcagcca aagttgctaa tgccacctat cgtacaattc aaggccattt 1920
 aaagttatgt cagatatttt cagacctcaa gacttgcttc agagcatggg aagattgggc 1980
 acaatctgaa aactttaagc aacgggtaat gacttgcttc acaaaatatt ttcttaggac ttgtaaatat 2040
 aatttatcca gaaccatttt tgatcaaaat agatgacctt gatgggtgcc ccatcgagga 2100
 tattgaagaa aaggaaacag aggatgttcc agatgacctt cctattgatg ctactcccat 2160
 agagcttgat ggtgcacctc tgggaagatg ctataaaaaa tcttgatgat gatcttgatg gagtgccttt 2220
 cgatgatctt gatggagtc ctaaaaaaag gcctatattt aaagtgtgcc catcaaaatg 2280
 ggatgcaact gaagactcaa aaaagaatga acaggctgtt acaacttcta aatgggaatt 2340
 ggaagctgtg gatgaatctg aatgtgaagc agagaagaaga agaaaaatcaa aatcaagaag aagaaagtga 2400
 atttgaccag catgaagaat gttccaaatc tgaagaacat catttgactt ctaatccaat 2460
 agatgaagaa gatactcaaa gttccaaatc taagtactct gaaatgagtg aggaaaaacg 2520
 caaagaagaa atgactgagt agctcaaagt tatgaagttt caggatgaat tggaaatctg 2580
 agccaaactt cgtgaaattg agccagagttt tcaggagcaa gtagaacact acagagataa 2640
 gaaaagacct aaaaaaccag agaaagagtt agaaaagagaa caagaaggaa aaagatgagt gtactccgac 2700
 acttcttcaa cgagagaaaag gttccaaaga caagagagaa atcccccagc ccattctcgca gtagcagtg 2760
 tagacgagtg aaatccccat caccaaaatc ggagcgatca gagcgttcag aaagatctca 2820
 taaagagagc tcacgggtcca ggtcatctca caaagattct cctagagatg ttagcaaaaa 2880
 agccaaaaga tcaccatctg gttcaaggac acctaaggag tctaggcgat cacgggtctag 3000
 atctcctaaa aaatcaggaa agaagtccag atcccagttc agatctccac acaggtctca 3060
 taaaaagtca aagaaaaaca aacactgacg taaattttta agatgctgtc acttatttga 3120
 aatgcgattt gttttgtgct tgaacgggtc gtttttttaa aaaacaaaaa atcaaatgaa 3180
 agagcattcc tgggggtttt tgtttgtttg tgtatgcatg tgtaaaactc tgagcaactg 3240
 catctgtaga tctgtcattg ttttatattg tgtaaaattc tttcattgtg gctattttct 3300

aagatgaaat	ttttattggt	ctaattggatt	tcacacagaaa	tgtgtataat	ggatctgctg	3360
acagtagtag	tatttttggtt	taggatgttg	tgacttagca	aaaaataatac	agatgtcttc	3420
cccccttttg	tagctttgac	aatttgaatt	agatttcaaa	taaaatctga	acagaaaact	3480
ataatgttgt	ttttttgccc	caccggtgat	attaagtccc	ttaaagtcct	actgagtttc	3540
acactactgt	tgtgcttctt	atacctgatg	cactttataa	gccccagtg	tcaagtagct	3600
taagttttat	atttactaag	atgacctatc	aaattaaagg	acctgagact	cctatttggt	3660
ggtttgcata	ccatttgctt	ttgataagtt	tctcttgggt	aataactaata	cccagatatac	3720
aaagactagg	tagatatggc	atggcggttt	gttagtggaa	tgccctggcta	aaacattttt	3780
ttcacagaag	caatatgatt	tccatacatc	caacccatgt	tctgagcaac	tacttacttt	3840
tagggggaaa	ttaaatatct	tttcatttcc	tcttctatta	tgaaagaagt	ttattttgtaa	3900
aacaaaatttt	ctaacaagg	ttggccatag	aattctcttg	tatgattgtt	gaccttttat	3960
aatcttctgt	aggctatctt	tcaaacactg	gcacacagaat	attttttata	agtttgtgtt	4020
taaacagctt	agttgggtccc	ccccccact	cccaagagac	ttgggttttag	ttatagcttt	4080
aagtaaaatt	taaaaaataaa	atgtttttca	ggaaaacttcg	tatctaattgg	tttgtaaaatt	4140
caaggtgcaa	aaagttgatt	taaaccattt	gcagagttga	actctattat	gaaaataaaat	4200
ttgctacggg	atgaggaaga	aataaaaactt	gtgtaattgtt	ggtcataata	ctgctataaaa	4260
tataataaag	ggttatgtag	aattgaactg	acactattat	ttgtgaatct	tgattttcagt	4320
tttttatgta	ggcacttcat	acactgggtt	gatgggtttt	ttttttcctc	cctaaaagag	4380
aaagtagaaa	actattctaa	caatggatta	ttttgattta	gcttgccttt	taaaaaaatc	4440
ttttcaactt	gtttttactta	atcttgccata	gtcacaaaaat	aagatgtgca	cccatgggtt	4500
ggagagttcc	tatatattgt	gagcagttag	atcacactatt	tccaaacggg	gcacacctac	4560
agtagctttg	gaaatgagcc	aatcactgtt	ttacttaatg	gttcttatca	gcacacacaa	4620
attgcttgaa	agttattttcc	ttatttcaact	ttttgttagt	ccatttttgt	aggaaacatt	4680
aattcctaaa	aattttgttca	gaataaattaa	aagtgaacat	ttgggtgctga	tactcaaaaa	4740
cctacaaaatg	tagccatttta	aaaagttaaca	tgtttttctc	ccctgctcat	tgccctggag	4800
aatggaaattt	tatataacta	ccttttcttg	caaaaaataac	ggctgctgctg	agttgggtggt	4860
gattttggca	ttccatcttg	cactgggttc	tagtataggc	ttagaaataa	ttgggtcaggt	4920
aataatcttt	ccagtcaggt	tgcaagggat	gcttatttct	cttcaaaaaa	agacatcctg	4980
cggtattgag	tagaaaaattt	taggtcagtt	ttgggtgctt	atttgaataa	tttttccctac	5040
tacatttgag	tttagcagtt	cttttttctc	ggatccagat	acaagtgtca	tggttttatct	5100
tacagtgggt	gaaactgact	ttcttttggt	tgggtgggtg	aggatttctt	aggcctgata	5160
gaatatatat	tctgtgaagt	ttgttaaatgt	acatattaga	ttgtattgga	tttttttttc	5220
ttgaattgca	aatgggtatta	ttagataggt	tatttccagt	tttacttcat	gacaaattac	5280
ctacacaaatg	cctactttaat	actccaatgg	attctatgaa	agtttaattgg	gatcagaaat	5340
tggtgactta	taagggggaa	gatattctac	catattttta	taatagctta	ttattcatgt	5400
ttcttgtctg	aaggacactc	aagttacaga	gcaaaatttc	tataggttga	ctagaatgtt	5460
cataagcatg	gtcttccagt	tgcaaggaaag	atcatgttct	atctgtggac	acttactgtc	5520
ctctaccaca	gctacgtgcc	agagttgttt	tccacagttc	ttataaagg	catgacttag	5580
gctctttacc	ctccaactta	atgtttatatac	acagggtattg	tttactaggt	taatgacatt	5640
taactcccc	ctcttctgta	ggtgagagaa	aataagtaag	tcttgatctg	tttcttacc	5700
aagagagaca	gacctatgat	ggaaaatgat	cacgtctctg	aattttttct	ttaacgttat	5760
agtttccctt	tacagatagt	aagcatatgg	gaatttctga	gctataacat	gttgagaagt	5820
tagaaaattaa	aactaacaca	acaaaaggcg	ctgaatcaaa	agatctttgc	ttttatttgg	5880
ctcagaatgt	ttttggcttt	tctgctaaag	atggcagaaa	ttactctaca	cagacctgat	5940
ttttctttat	tgacagaccat	tcttgtgggc	ttaccctgag	actttttatcc	caattagtga	6000
atcttggagg	gaataacttg	ttattttatga	cttaggtatt	tccccccaaa	ctttaattatt	6060
cttagagcact	tgaaaataact	tttgagaaat	tttaactgtg	attaaaattta	ggttttattag	6120
aaatatctctg	tacacatttg	cctccatggg	gggtgaagtt	ctgaaaaaatt	atatgacctg	6180
gacaatagtt	tatcatcatc	attattgtta	ttcaaaaataa	gggtaaaataa	atctctgtat	6240
tgccaaagtg	acttaaaactg	ttctgatgac	cacacagtg	gattttcttta	gcagagaaaag	6300
ttgggttttaa	aaataaaatag	taccactttt	ctaagactgt	acagttttaca	aataagggtt	6360
ttttcttttg	tgtttttctc	ttctattaaag	tttttagtgaa	aagcctaatt	acagaaaaatt	6420
gtgcagatac	tagtgaagat	actagtataa	gtttaaagga	acatgtgact	gtaaaatctc	6480
acattttacaa	agtgcctgat	ctcttcatat	ttcacacgca	tgtttttagaa	tagatttttag	6540
ggagtgttta	attcattatc	cttttgactt	aaaatttttg	ttaccaactt	cctaggactt	6600
agataaatata	taaaataagta	caaatccag	gggaagtgtt	gtgatgctag	actaaaagggt	6660
gggaatgtgc	tgctgttccg	tgagccttgt	tccattgttg	aaaatttgat	gcctcagtg	6720
ttatttcagta	ccacctcatg	gagcttcaat	gtaaatggat	tatatgtata	attggtaatt	6780
tgtatagttt	tgtagattgt	agattaaaatg	cactcatcat	gtc		6823

<210> 254
 <211> 6252
 <212> DNA
 <213> Homo sapiens

<400> 254

gcgggggggca	atggcactgc	agctctgggc	cctgaccctg	ctgggcctgc	tgggcgaggg	60
tgccagccctg	aggcccccga	agctggactt	cttccgcagc	gagaaaagagc	tgaaccacct	120
ggctgtggat	gagggcctcag	gcgtgggtgta	ccttggggcg	gtgaatgccc	tctaccagct	180
ggatgcgaag	ctgcagctgg	agcagcaggt	ggccacgggc	ccggccctgg	acaacaagaa	240
gtgcacgccc	cccatcgagg	ccagccagtg	ccatgaggct	gagatgactg	acaatgtcaa	300
ccagctgctg	ctgctcgacc	ctcccaggaa	gcgcctgggtg	gagtgccgca	gcctcttcaa	360
gggcatctgc	gctctgcgcg	ccctgagcaa	catctccctc	cgctgttctt	acgaggacgg	420
cagcggggag	aagtctttcg	tggccagcaa	tgatgagggc	gtggccacag	tggggctggg	480
gagctccacg	ggctcctggtg	gtgaccgcgt	gctgtttgtg	ggcaaaggca	atggggccaca	540
cgacaacggc	atcatcgtga	gcactcggct	gttggaccgg	actgacagca	gggaggcctt	600
tgaagcctac	acggaccacg	ccacctacaa	ggccggctac	ctgtccacca	acacacagca	660
gttcgtggcg	gccttcgagg	acggccccct	cgctcttctt	gtcttcaacc	agcaggacaa	720
gcacccggcc	cgtctgctggc	acgcctgtgc	ggaccccgac	atccacgccc	ctgccttttg	780
ctcctacctg	gctctgcgcg	tggtctgcgc	tggtctctggc	aggggtgctat	atgctgtctt	840
cacctgcctg	agccggagca	gtgggggggc	cggtgcgggc	ctctgcctgt	tcccgtctga	900
cagcagagac	gccaagatgg	aggccaaccg	caacgcctgt	tacacaggca	cccgggaggc	960
caaggtgcac	ttctacaagc	ccttccacgg	cgatatccag	tgcggcggcc	acgcgcgggg	1020
ccgtgacatc	agcttcccat	gtggctcgga	gcacctgccc	tacccgctgg	gcagcccgga	1080
ctccagcaag	ggcacagccg	tgctgcagcg	tggaggccctg	aacctcacgg	ccgtgacggg	1140
cgggctcaga	aacaaccaca	ctgttgcttt	tctgggcacc	tctgatggcc	ggatcctcaa	1200
ggcgcccgag	accccagatg	gcacctcctc	agagtacgac	tctatccttg	tggagataaa	1260
ggtgtacctc	aagcgcgacc	tggtactgtc	tggagacctg	ggcagcctgt	acgccatgac	1320
caagagagtc	gtgttccggc	tgcgggtgca	ggagtgcctg	agctaccocga	cctgcaccca	1380
ccaggacaag	tcccaggacc	cctactgcgg	ctggtgcgtc	gtcgagggac	gatgcacccc	1440
gtgccgcgac	tgcccgcggg	ccgaggaggg	cagccactgg	ctgtggagcc	gaagcaagtc	1500
gaaggccgag	gtcaccagcg	cccagccaca	gaacatgagc	cggcggggcc	agggggaggt	1560
ctgctgtggc	gtcagccccc	tccctgccct	gagcgaggag	gacgagttgc	tgtgcctttt	1620
gcagctgacc	ccgccacacc	ccgccgcgct	ggaggggcgag	gccgtcatct	gcaactcccc	1680
tggggagtcg	cccgtcacac	cgccaggcca	ggaccacgtg	gccgtgacca	tccagctcct	1740
aagcagcatc	ccttagacga	ggcaacatct	ctaccagtac	cccttctacg	actgcccgcca	1800
ggccatgagc	ctggaggaga	acctgccgtg	catctcctgc	gtgagcaacc	gctggacctg	1860
ccagtgggac	ctgcgctacc	acgagtgcgg	ggaggcttcg	cccaaccctg	aggacggcat	1920
cgtccgtgcc	cacatggagg	acagctgtcc	ccagtctcctg	ggacccagcc	ccctgggtgat	1980
ccccatgaac	cacgagacag	atgtgaactt	ccaggccaag	aacctggaca	ccgtgaaggg	2040
ttcctccctg	acgctgggca	gtgacttgct	caagtccatg	gagccgggtg	ccatgcaggga	2100
atctgggacc	ttcgcttttc	ggaccccaaa	gctgtcccac	gatgccaaag	agacgctgcc	2160
cctgcacctc	tacgtcaagt	cttacggcaa	gaatatcgac	agcaagctcc	atgtgacctc	2220
ctacaactgc	tcctttgggc	gcagcgactg	cagcctgtgc	cgggcccgtc	accccgacta	2280
catagtgctg	tggtgcgggg	gccaagacag	gtgcgtgtat	gaggccctgt	gcaacaccac	2340
ctccgagtgc	ccgccgcccc	tcataccag	gatccagcct	gagacggggc	ccctgggtgg	2400
gggcatccgc	atcaccatcc	tgggggtcaa	tttgggcgtc	caagcagggg	acatccagag	2460
gatctctgtg	gccggcccgga	actgctcctt	tcagccggaa	cgttactccg	tgtccacccg	2520
gatcgtgtgt	gtgatcgagg	ctgcccagac	goccttccag	gggggtgtcg	aggtggagct	2580
cttcgggaaa	ctggggcggtt	cgccctccaa	tgccagtttc	accttccaac	agcccaagcc	2640
tctcagtgtg	gagccgcagc	agggaccgca	ggcgggcggc	accacactga	ccatccacgg	2700
caccacacctg	gacacgggct	cccaggagga	cgtgcgggtg	acctcaacg	gcgtcccctg	2760
taaaagtacg	aagtgtgggg	cgcagctcca	gtgtgtcact	ggccccagg	cgacacgggg	2820
ccagatgctt	ctggagggtct	cctacggggg	gtcccccggtg	cccaaccocg	gcatcttctt	2880
cacctaccgc	gaaaaccccc	tactgcgagc	cttcagagccg	ctacgaagct	ttgccagtgg	2940
tggccgcagc	atcaacgtca	cgggtcaggg	cttcagcctg	atccagaggt	ttgccatggt	3000
ggtcatcgcg	gagccctctg	agtctctggc	ggccgcggcg	gaggctgaat	ccctgcagcc	3060
catgacgtgt	gtgggtacag	actacgtgtt	ccacaatgac	accaagggtc	tcttctgtc	3120
cccggtctgtg	cctgaggagc	cagaggccta	caacctcacg	gtgctgatcg	agatggacgg	3180
gcaccgtgcc	ctgctcagaa	cagaggccgg	ggccttcgag	tacgtgcctg	acccacacct	3240
tgagaacttc	acaggtggcg	tcaagaagca	ggccaacaag	ctcatccacg	ccgggggcac	3300
caatctgaac	aaggcgatga	cgtctgcagga	ggccgaggcc	ttcgtgggtg	ccgagcgctg	3360
caccatgaag	acgctgacag	agaccgacct	gtactgtgag	cccccgagg	tgcagcccc	3420
gcccgaagcg	cggcagaaac	gagacaccac	acacaacctg	cccagagttc	ttgtgaagtt	3480
cggctctcgc	gagtggtgtc	tgggcccgtg	ggagtacgac	acacgggtga	gcgacgtgcc	3540
gtcagccctc	atcttgccgc	tggtcatcgt	gccccaggtg	gtcgtcatcg	cggtgtctgt	3600
ctactgctac	tgggaagaaga	gccagcaggc	cgaacagagag	tatgagaaga	tcaagtccca	3660
gctggaggggc	ctggaggaga	gcgtgcggga	ccgctgcaag	aaggaaattca	cagacctgat	3720
						3780

gatcgagatg	gaggaccaga	ccaacgacgt	gcacgaggcc	ggcatccccg	tgctggacta	3840
caagacctac	accgaccgcg	tcttcttctt	gcccctccaag	gacggcgaca	aggacgtgat	3900
gatcaccggc	aagctggaca	tccctgagcc	gcgggcgccg	gtgggtggagc	aggccctcta	3960
ccagttctcc	aaactgctga	acagcaagtc	tttctctatc	aatttctatc	acaccctgga	4020
gaaccagcgg	gagttctcgg	cccgcgccaa	ggctctacttc	gcgtccctgc	tgacgggtggc	4080
gctgcacggg	aaactggagt	actacacgga	catcatgcac	acgctcttcc	tggagctcct	4140
ggagcagtac	gtgggtggcca	agaacccccaa	gctgatgctg	cgcaggtctg	agactgtggt	4200
ggagaggatg	ctgtccaact	ggatgtccat	ctgcctgtac	cagtacctca	aggacagtgc	4260
cggggagccc	ctgtacaagc	tcttcaaggc	catcaaacat	caggtggaaa	agggccccgt	4320
ggatgcggta	cagaagaagg	ccaagtacac	tctcaacgac	acggggctgc	tgggggatga	4380
tgtggagtac	gcacccctga	cgggtgagcgt	gatcgtgcag	gacgaggag	tggacgccat	4440
cccggtgaag	gtcctcaact	gtgacaccat	ctcccaggctc	aaggagaaga	tcattgacca	4500
ggtgtaccgt	gggcagccct	gctcctgctg	gcccaggcca	gacagcgtgg	tcctggagtg	4560
gcgtccgggc	tccacagcgc	agatcctgtc	ggacctggac	ctgacgtcac	agcgggaggg	4620
ccggtggaa	cgcgtcaaca	cccttatgca	ctacaatgtc	cgggatggag	ccacctcat	4680
cctgtccaag	gtgggggtct	cccagcagcc	ggaggacagc	cagcaggacc	tgctgggga	4740
gcgccatgcc	ctcctggagg	aggagaaccg	ggtgtggcac	ctggtgcggc	cgaccgacga	4800
ggtggacgag	ggcaagtcca	agagaggcag	cgtgaaagag	aaggagcgga	cgaaggccat	4860
caccgagatc	tacctgacgc	ggctgctctc	agtcgaaggc	acactgcagc	agtttgtgga	4920
caacttcttc	cagagcgtgc	tggcgctgg	gcacgcgggtg	ccacctgcag	tcaagtactt	4980
cttcgacttc	ctggacgagc	aggcagagaa	gcacaacatc	caggatgaag	acaccatcca	5040
catctggaa	acgaacagct	taccgctccg	gttctgggtg	aacatcctca	agaacccccca	5100
cttcactctt	gacgtgcatg	tccacgaggt	ggtggacgcc	tcgctgtcag	tcctcgcgca	5160
gaccttcatg	gatgcctgca	cgcgcacgga	gcataagctg	agccgcgatt	ctcccagcaa	5220
caagctgctg	tacgccaagg	agatctccac	ctacaagaag	atggtggagg	attactacaa	5280
ggggatccgg	cagatggtgc	aggctcagca	ccaggacatg	aacacacacc	tggcagagat	5340
ttcccgggcg	cacacggact	ccttgaacac	cctcgtggca	ctccaccagc	tctaccaata	5400
cacgcagaag	tactatgacg	agatcatcaa	tgccctggag	gaggtacctg	ccgcccagaa	5460
gatgcagctg	goccttccgcc	tgacgagat	tgccgctgca	ctggagaaca	aggtcactga	5520
cctctgacct	acaatctcca	gtgctgcctt	gggacatagg	tacctgaggt	acctgagagc	5580
ccctcagggg	aggaggccga	gtggctgtgg	ctgaggcccc	cacctctccc	tgggaacgcgc	5640
cccaagcccg	agtgggtgca	gccggaaacc	gcccagcgtc	tagactgtag	catcttcttc	5700
tgagcaatac	cgccggggcac	cgcaccagca	ccagccccag	ccccagctcc	ctccggccgc	5760
agaaccagca	tgggtgttcc	actgtcgagt	ctcgagtgat	ttgaaaatgt	gccttacgct	5820
gccacgctgg	gggcagctgg	cctccgcctc	cgccacgcga	ccagcagccg	cctccatgcc	5880
ctagggttgg	ccccctggggg	atctgagggc	ctgtggcccc	cagggcaagt	ccccagatcc	5940
tatgtctgtc	tgtccaccac	gagatggggg	gaggagaaaa	agcggtacga	tgcccttctg	6000
acctcagccg	cctccccaa	ggtgcgggca	ctctgggtgg	actcacggct	gctggggccc	6060
acgtcaaagg	tcaagtgaga	cgtaggtcaa	gtcctacgtc	ggggcccaga	catcctgggg	6120
tcctgggtctg	tcagacaggc	tgccctagag	ccccaccacg	tccgggggga	ctgggagcag	6180
ttccaagacc	acccccaccc	tttttgtaaa	tcttgttcat	tgtaaatcaa	atacagcgtc	6240
tttttcactc	cg					6252

<210> 255
 <211> 7834
 <212> DNA
 <213> Homo sapiens

<400> 255						
cgtctgaagg	tcacgagccc	cgccgacagc	ccagaccacg	tccgggctag	cccgaggcct	60
ccctggagggt	ggacggtttc	agtccacaca	tactgggacc	ccagggagac	actcaccagc	120
atccgagcct	gccatgtttc	agaggcaggt	cgccgcggga	ctccgacgcg	gccgggaagg	180
cgacggtgtc	ctggaaggac	cgatccacgc	agaccgacac	tgggcgcggga	cgcacgaacc	240
aaagcgcggg	aaggaggcgt	gaagaaggac	ggacgttaaa	gagcttctcg	ccgctgattg	300
gtcatcagag	gagcacttcc	ttcacaggac	gtgaaacggg	ggcggtttgg	gaagtttaga	360
gaccattctc	cgccgaccaa	aacccgtcaa	aggattatca	gacacgcggg	tggacgggtc	420
cacatcagcc	ggcagccccc	gcgggtcccg	gggtgcgagc	agcgcacttc	cgggtgagcta	480
tttcgttttg	tatccctccg	ccgacgtcaa	cgggaaagta	gtgcgggacc	ctctctcggt	540
ggtccggggg	ggtacagcca	cgtgacaacg	ccaggccccg	ccttccccct	cttttgggtta	600
cagacgtgag	ggctctttgg	agacgtaaac	atctccgagt	ggcgagggtg	ggcggggcta	660
gggcttggga	aaggggcggg	tggcttgctt	gagggtgtgga	aagaccagaa	gaagggtgag	720
tcaagagagt	gcgaatgagg	cattccaatg	gtgggtgggc	cctgacctga	gagagtggcg	780
cggggagggg	tgaaggcgcg	gctgatcctg	aacgccagcg	ggcgttgccg	cctatgcgcg	840
agggggcggg	cgattaggtc	atagagcggc	tcccagcgtt	ccctgcggcg	taggaggcgg	900

gagaataaaaa	ccattgtrttt	tgtggaaacc	aaaagaagat	gtgatgagct	taccagaaaa	4800
atgaggagag	atgggtatgt	gtgagctoct	ccttgaagca	gattgattaa	aacagcttag	4860
gaaggcgaac	cttggatcac	gagcagtggg	tttttttcat	atctgatagt	gaattttaact	4920
ttttcatttc	tggcgaaatt	aaagagatct	gtgacccaaa	gtgggtcaagc	actggagctc	4980
gaggtttttc	atgtgagttt	aataacacaa	ccttgctttt	aacttaggtg	gcctgccatg	5040
ggatcccatg	gtgacaagag	tcaacaagag	cgtgactggg	ttctaaatgg	taaatatttc	5100
aaatgaagta	tttttcccc	ttacttaacc	tagctagaat	tcaaaccatg	aaaagctcct	5160
attctgattg	ctacagatgt	ggcctccaga	gggctagggt	agtacaaact	cgcattcatg	5220
gcttggtttc	ccagaagatc	tccatttaac	tttttttaaag	aaagtttatt	gctttcttta	5280
acctgcattt	tttctaagtt	ttttttcaca	taaaggtgct	gtctttgtgg	caaggcctag	5340
gcattgaca	cggaggactc	gagggggatg	gaggactagt	gatcggtctg	ctgcttccag	5400
tcgatctag	aggtgaaaag	ctgaacgtgt	gccagtaatc	ttcaaaaggc	agaacatata	5460
acctctgccc	cgtaaaactg	tctctccgag	ggaaaaaatg	gaagttatct	cacagttcac	5520
tgcctgggtg	tttcttctgt	cccatgcttt	gcattgactgc	catgggtacag	ccttggtttc	5580
aactgtttca	tgtgatctgt	gggtctttga	gtttcagtga	gtttgctgaa	atgtcgaaga	5640
agtagttcca	aacttcaatg	ttcaatgaaa	tttttgttca	agtttgaaat	ggagagagca	5700
gctttaaaa	gtactaagcc	ttttacaaat	tgggtgagtt	ctggcacatg	agatctagag	5760
caggagcaac	ttctacacac	tatgagtaag	tgggaaaaga	aagtgtcttg	aaagttcctc	5820
cctcacctac	acagtagtcg	tcatgtcgag	acctgccaga	gagagacaca	ttctcaagtg	5880
aatctctggc	tcttgggaag	gcttgccctg	acgagacaca	gtgcataaaa	acaacttttg	5940
ggggacaggt	atgttttctt	gcagctgcgg	ttgtaagggt	ttggcaagac	aagcagtggt	6000
gccagaattt	tgaacttctg	atgaatgtgt	aatgcaaagg	accttgtaca	tttttttgtt	6060
tcaaggtcct	caaaatgagc	acatgaagag	gttgctgtga	aactttaagt	ggccctactg	6120
cgcagaagca	ttcagatgtc	acttgatgat	ctgtaaggga	acttgctgat	ttgggaatgt	6180
gcttatttaa	cacacattcc	ttttgacagg	gtctgtcact	gggggtgggg	tgatgaatta	6240
tacagatgac	atgtgctttt	tttttctttt	ttcaacctca	atgggtattc	tacaggaaat	6300
ggataaacc	tttaactgta	tttttttgca	gcccgtacct	tcttggggat	acaattgtct	6360
aactttttat	ttttggtctg	gctgttgttg	tgtgcaaaac	tccgtacatt	gctattttgc	6420
cacactgcaa	caccttacag	atgtggaaga	tgtgaaattt	gtcatcaatt	atgactacc	6480
taactctcca	gaggattata	ttcatcgaat	tgggaagaact	gtcgcagta	ccaaaacagg	6540
cacagcatac	actttcttta	caoctaataa	cataaagcaa	gtgagcgacc	ttatctctgt	6600
gcttcgtgaa	gctaataca	caattaatcc	caagttgctt	cagttggctg	aagacagagg	6660
ttcaggtaag	gatgactgat	aggaaatgtt	ggtagttacg	gtcactacgt	atacaaatcc	6720
attttaaagg	tattggagg	tgagtaaaac	ccttgaagtga	aaacttaagc	tgaaaaattg	6780
taaaaacatt	tcacgcctcc	catgaataga	tctgtttctt	ctgtccacaa	tgatttgtgt	6840
catagacata	attgatcaat	ttgcaattgt	tttcttgaca	ggctgttcca	ggggtagagg	6900
agggcatga	gatgaccgtc	gggacagata	ctctgcgggc	aaaaggggtg	gatttaatac	6960
cttttagagc	agggaaaatt	atgacagagg	ttactctagc	ctgcttaaaa	gagattttgg	7020
ggcaaaaact	cagaatgggt	tttacagtgc	tgcaaaattac	accaatggga	gctttggaag	7080
taattttgtg	tctgctggta	tacagaccag	ttttaggact	ggtaatccaa	cagggactta	7140
ccagaatggt	tatgatagca	ctcagcaata	cggaaagta	gttccaaata	tgcaaatgg	7200
tatgaaccaa	caggcatatg	catatcctgc	tactgcagct	gcacctatga	ttggttatcc	7260
aatgcccaaca	ggataattcc	aataagactt	tagaagtata	tgtaaatgtc	tgtttttcat	7320
aattgtctct	tatatgtgtg	gttatctgac	aagatagtta	tttaagaaac	atgggaattg	7380
cagaaatgac	tgcagtgcag	cagtaattat	ggtgcacttt	ttcgctattt	aagtgggata	7440
tttctctaca	ttcctgaaac	aatttttagg	ttttttttgt	actagaaaa	gcaggcagtg	7500
ttttcacaaa	agtaaatgta	cagtgatttg	aaatacaata	aatgaaggca	atgcatgggc	7560
ttccaataaa	aaatatttga	agactgaatt	aagtgggaa	tgtactttat	ttatataatg	7620
tcattgtaaaa	ctttgcttaa	gatgggtctg	tttttttttt	gtttttgttt	ggtttttttt	7680
ttccatgaaa	acaaatgact	gttccttttt	atttaatttg	ggaggcaggg	ggaatcagaa	7740
ggcccttctt	tataatgagc	tattcatatt	gcaggagtca	gaatgaattg	atacagggtg	7800
atttttagtt	acaggctaaa	ttgcataaaa	gctt			7834

<210> 256

<211> 903

<212> DNA

<213> Homo sapiens

<400> 256

cgccggcggc	gacaggaccg	aggggcctta	gttggtgggc	aagtcgggga	tcccagaaa	60
agaagcgtga	cccgggaagc	gaaacgggtg	tccgtccag	ctccggcctg	ccagtga	120
tctaccatca	tggacattat	gttcggggc	cggaaagcgc	cagaggagct	actgcggcag	180
aaccagagg	cctgaaccg	tgcctatg	gagctggacc	gcgagcgaca	gaaactagag	240
accagaggag	agaaaatcat	tgcagacatt	aagaagatgg	ccaagcaagg	ccagatggat	300

gctgttcgca	tcatggcaaa	agacttggtg	cgcacccggc	gttatgtgcg	caagtttcta	360
ttgatgcggg	ccaacatcca	ggctgtgtcc	ctcaagatcc	agacactcaa	gtccaacaac	420
tcgatggcac	aagccatgaa	gggtgtcacc	aaggccatgg	gcaccatgaa	cagacagctg	480
aagttgcccc	agatccagaa	gatcatgatg	gagtttgagc	ggcaggcaga	gatcatggat	540
atgaaggagg	agatgatgaa	tgatgccatt	gatgatgcca	tgggtgatga	ggaagatgaa	600
gaggagagtg	atgctgtggt	gtcccagggt	ctggatgagc	tgggacttag	cctaacagat	660
gagctgtcga	acctccccct	aactgggggc	tcgcttagtg	tggctgctgg	tgggaaaaaa	720
gcagaggccg	cagcctcagc	cctagctgat	gctgatgcag	acctggagga	acggcttaag	780
aacctgcgga	gggactgagt	gccccctgca	ctccgagata	accagtggat	gcccaggatc	840
ttttaccaca	acctctctgt	aataaaaagag	atttgacact	aaaaaaaaaa	aaaaaaaaaa	900
aaa						903

<210> 257

<211> 1860

<212> DNA

<213> Homo sapiens

<400> 257

cgtgaacggg	cgttcgagag	attgcggggc	gctgagacgc	cgctgcctg	gcacctagga	60
gcgcagcgga	gccccgacac	cgccgcgcgc	gccatggagt	cgcagaccga	accgcagccc	120
gtcacgcctcc	tgggtgaagag	cccccaaccag	cgccaccgcg	acttgagct	gagtgccgac	180
cgcggtcgga	gtgtggggcca	cctcaaggcc	cacctgagcc	gcgtctaccc	cgagcgctcc	240
cgtccagagg	accagagggt	aattttattct	gggaagctgt	tgttggaatca	ccaatgtctc	300
agggacttgc	ttccaaagca	ggaaaaacgg	catgttttgc	atctgggtgtg	caatgtgaag	360
agtcccttcaa	aaatgccaga	aatcaacgcc	aagggtggctg	aatccacaga	ggagcctgct	420
ggttctaatc	ggggacagta	tcctgaggat	tcctcaagtg	atggtttaag	gcaaagggaa	480
gtttcttcgga	acctttcttc	ccctggatgg	gaaaacatct	caaggcctga	agctgcccag	540
caggcattcc	aaggcctggg	tcctgggtttc	tcgggttaca	cacctatagg	gtggcttcag	600
ctttcctggg	tcacgcagat	atatgcacga	cagtactaca	tgcaatatct	agcagccact	660
gctgcctcag	gggcttttgt	tcaccacca	agtgcacaag	agatacctgt	ggctctctgca	720
cctgctccag	ccccatttca	caaccagttt	ccagctgaaa	accagcctgc	caatcagaat	780
gctgctcctc	aagtgggtgt	taatcctgga	gccaatcaaa	atttgccgat	gaatgcacaa	840
gggtggcccta	ttgtggaaga	agatgatgaa	ataaatcgag	attgggttga	ttggacctat	900
tcagcagcta	cattttctgt	ttttctcagt	atcctctact	tctactctc	cctgagcaga	960
ttcctcatgg	tcattgggggc	caccgtttgt	atgtacctgc	atcacgttgg	gtgggtttcca	1020
tttagaccga	ggccggttca	gaacttccca	aatgatggtc	ctcctcctga	cgttgtraaat	1080
caggacccca	acaataactt	acaggaaggc	actgatcctg	aaactgaaga	cccccaaccac	1140
ctccctccag	acagggatgt	actagatggc	gagcagacca	gccccctcct	tatgagcaca	1200
gcactggcttg	tcttcaagac	ttctttcttc	tctcttcttc	cagaaggccc	ccagoccatc	1260
gcaaatgat	ggtgtttgtg	ctgtagctgt	tggaggcttt	gacaggaatg	gactggatca	1320
cctgactcca	gctagattgc	ctctcctgga	catggcaatg	atgagttttt	aaaaaacagt	1380
gtggatgatg	atatgctttt	gtgagcaagc	aaaagcagaa	acgtgaagcc	gtgatacaaa	1440
ttggtgaaca	aaaaatgccc	aaggcttctc	atgtgtttat	tctgaagagc	tttaatatat	1500
actctatgta	gttttaataag	cactgtacgt	agaaggcctt	agggtgttga	tgtctatgct	1560
tgaggaaactt	ttccaaatgt	gtgtgtctgc	atgtgtgttt	gtacatagaa	gtcatagatg	1620
cagaagtggg	tctgctggta	agatttgatt	cctgttggaa	tgtttaaatt	acactaagtg	1680
tactacttta	tataatcaat	gaaattgcta	gacatgtttt	agcaggactt	ttctaggaaa	1740
gacttatgta	taattgcttt	ttaaaatgca	gtgctttact	ttaaactaag	gggaactttg	1800
cggaggtgaa	aacctttgct	gggttttctg	ttcaataaag	ttttactatg	aatgacctg	1860

<210> 258

<211> 5350

<212> DNA

<213> Homo sapiens

<400> 258

tttattgaac	attttattctg	ttcaaaaacat	tcccaaaggc	aacagaagat	acaaataaat	60
ctctgcccat	gaaaagggtgt	ggggggcatt	agaaggcggt	ctcttcgggtg	taatgaagta	120
atgagagaag	aaaaagtagt	ttgaagctat	ggagtaaggg	acttttagta	tcccaggctc	180
aaaaagttgg	gacttgaaca	gtacgggggt	gctgctgaaa	acgtttgagg	gaggtaaatga	240
catgatcgaa	gctatacttg	agaaaagggtga	atctgataaa	gtatgagtga	aaaagagact	300
gaaggctctag	aaattagatt	gaggctaatg	acaaaatcca	cataaatagg	aggacttgaa	360
cgaagggggc	cttagaagag	gacaggagat	agtaaaaaggc	attcaatgat	gagagcacac	420
actacagggg	agcatgaggg	aggttggaaa	agataaatgaa	aggattaccg	agcttcactg	480

acgatgtgtt	tgaaatgagc	aggaatcttg	tagtgatcct	aatccgtggt	tttctggagc	540
atttcacagc	ctaggaacat	acaagggggg	catctccctg	gaatgtaaat	tgactaagag	600
gaattcaata	atgggtcaaat	gaatgcagaa	tttttagagtc	ttgcttagta	ttctcaccac	660
atttcgttta	gtctactcat	actctttttc	tctttactgt	gacactagat	ggaaaaactc	720
ttaattaaaa	gtatttcaca	aaatgtgtct	gttttcagtc	atcccgtttc	cactccagcc	780
tgttgtttg	tttttttgaa	ataataatct	aaagtaatct	tccctttgca	ggatggcata	840
gtcaatccaa	caataagaaa	agatttgaaa	actggaccga	aattctactg	ctgtccaatt	900
gaaggctgcc	ccagaggccc	tgagagaccg	ttttctcagtc	tttctctcgt	aaaacagcac	960
tttatgaaaa	tgcattgctga	gaagaagcac	aaatgtagta	agtgcagcaa	ttcgtacggt	1020
acagaatggg	acctgaaaag	acatgcagag	gactgtggca	agacctccg	gtgcacatgc	1080
ggctgtccgt	acggcagtag	aacgacactg	cagtcctaca	tctaccgaac	tggggcagag	1140
atacctgcag	aacacagggg	cccacctagt	aagaaaagga	aaatggaaaa	ctgtgcacaa	1200
aaccagaagt	tatccaacaa	gaccattgaa	tcattgaaca	accaaccaat	ccctagacca	1260
gacactcaag	actagaagc	ttcagaaaaa	aagctagaac	catcttttga	agactcttgt	1320
ggctctaaca	ctgacaagca	gactcttata	acaccacaga	gatatactca	gaagtgtgctt	1380
ttaccaaaagc	ccaaagtggc	tttggttaaa	ctaccctgta	tgcagttctc	tgtcatgctc	1440
gtcttttgtgc	ctacagccga	ctctcagcc	cagcctgtgg	tgttaggtgt	tgatcagggc	1500
tctgccacag	gggctgtgca	cttaatggcc	ttgtcagtag	gaaccttgat	cctcggccta	1560
gattcagagg	cttgcctctc	taaggagagc	ctacctcttt	tcaaaattgc	taatcctatt	1620
ctctgtgtgag	caataagtac	tgggtgtcaa	gtgaactttg	gtaaaagtct	acttaactct	1680
ttacaagAAC	tagggaaacac	gtgtcaaaag	ataagcattt	cttcaatcaa	cgtgcagaca	1740
gatctgtctt	atgcttcaca	aaactttata	ccttctgcac	agtggggcac	tgctgattcc	1800
tctgtgtcgt	cttgtttctc	aactgatttg	togtttgatt	ctcaagtgtc	tcttccatt	1860
agtgttcaca	ctcagacatt	tttgcccagc	tctaaggtaa	cttctctat	agctgctcag	1920
actgatgcac	ttatggacac	ctgtttccag	tcaggtgggg	tctccagaga	aactcaaac	1980
agtgggatag	aaagtccaac	ggatgacct	gtacagatgg	accaagctgg	aatgtgcgga	2040
gacatttttg	agagtgttca	ttcatcatat	aatgttgcta	caggtaacat	tataagcaac	2100
agtttagtag	cagagacagt	aactcatagt	ttgttacctc	agaatgagcc	taagacttta	2160
aatcaagata	ttgagaatc	tgcaccaatt	ataaaattca	gtgcacagaa	tagtatgctt	2220
ccttcagaga	acatgacaga	taatcagacc	caaacattag	atttattaa	tgaattggaa	2280
aacatcttgt	caagtaatct	gcctgccag	acattggatc	atcgtagtct	tttgtctgac	2340
acaaatcctg	gacctgacac	ccagctcca	tctggcccag	cccagaaccc	cggaatcgat	2400
tttgatatcg	aagagttcct	ttcggcctca	aatatccaga	ctcaaacctga	agagagtga	2460
cttagcacca	tgaccaccca	gccagtcttg	gagtcactgg	acatagagac	tcaaaccggc	2520
tcttactocg	cagatacctc	tctgcagtc	tgtgggtgta	ggggaaattc	taacttctta	2580
ggccttgaga	tgtttgacac	acagacacag	acagacttaa	actttttctt	agacagtagc	2640
cctcatctgc	ctctgggaag	tattctgaaa	cactccagct	tttccgtgag	tactgattca	2700
tctgacacag	agaccaaaac	tgaaggatc	tcactgtcta	aaaaataacc	tgctctagaa	2760
agcaaaagttc	agttgaacag	tcagaaaaca	cagaccatga	gttctggggt	tgaacccttg	2820
ggagcttgtt	tcttcaccag	caacgaaact	cagacagcaa	tggatgactt	tcttctggct	2880
gatctggcct	ggaacacgat	ggagtctcag	ttcagctctg	tagaaacca	gacttctgcg	2940
gaaccacaca	cagtctccaa	cttctaaaac	taacgggtga	gtccatgtgt	gaaatggcat	3000
ctaccattatc	ctctggatta	aaactacgga	ctggggacaa	cagtattaat	tcgattgaat	3060
gtggctgatg	atgcagttgc	ttagcttctt	tgtgtttctt	tgccctttgt	acttgttaac	3120
agaaaatttgc	gtataaattgt	gagtgattta	taaagtttga	gatgttgatc	taaatgtgtt	3180
ttgtgttgcc	tacatttgcc	ttttcacagc	tagtcttttc	atgttaaaaa	aaaaatgtat	3240
ttcatatact	taaaacctat	atagccattt	agctgaagcc	cagcttacca	ggttcaaggg	3300
tacaaaacttc	tcaaaacttc	aaaacatttt	agtcaaagtc	taataacttt	aaactgcacc	3360
taaaatatct	tttggactgc	ttgttagaaa	tctcgtatc	ctgttactaa	tcactaaaga	3420
aaccgggatgc	tgccaccgta	ggatttaagc	agtagtgctt	ccatgctctt	aagactcctg	3480
ctgcctggac	cttcgtcagc	tttgacacct	cttttctgat	ttaaagacac	caaggaaaac	3540
tacaactgtc	tttagctttg	aagcagtttt	catgtaatca	ttgccacctc	ttcgctacat	3600
gactactact	tgataccagc	atacaagtgt	atagcatttt	acacacaaga	ggttttattga	3660
tgtaaaaatta	tcggctaggg	aagcagcagc	ggggcagggt	tgttggtctta	ccccctgtaat	3720
cccagcactt	tgggaggcca	aagcaggacg	atcacttgag	cccaggagtt	caaccaccagc	3780
ttggggcaaca	taagaagacc	gtgtctctgg	aatttttttt	ttttttaatt	agccaggcac	3840
agtggcatgc	gctctgtgat	ccagctactt	ggaaggctga	ggtgagaggg	tcactcgagg	3900
agatttgggg	tgccatgagc	catggtcttg	gcactgtact	ccaacctggg	taacagggca	3960
agacctatc						

tccttccatt	caccattctt	tatcttttct	ttgaataaga	aaaagtatct	agcaaggata	4380
ttacttgtgc	cttgaggcta	gcaattatag	gatagattca	tctaaaatat	ggtattctgc	4440
atcttgggtt	tttttcttaa	gtgaataata	ccagtcttca	aagaaaacaa	ggtgaagacc	4500
tattgcttca	ataatcaaga	atgctttgtg	tggtttgagg	taggagcatg	atcaagtatg	4560
ctttggggat	tttctgtatt	taggagatcc	tggattctta	attggttggt	aagttccagt	4620
caagtaggaa	tcagtgcagc	ctgtaagttc	tccacattga	cacacacaca	cacacacaca	4680
cacacacaca	cacacgacat	gtccttttct	gtggcacatg	cctgtattac	tgaaagctaa	4740
atcctcaaaa	cctagtaagg	ggaccaatga	ttcattaaag	taaattgatg	gttttgcctac	4800
taattcctat	cccatacatt	tgacacaaaa	gaagtgttgg	taatggataa	ataacatata	4860
ccgggcagat	gagctcaacc	tagtaggtta	gagtttgggt	tggtcacagt	tgccatagag	4920
tgtgggtttc	aaaagaaaaca	taaagcctta	acttagaatt	tcattatggt	ttagaatcat	4980
cactgcctta	atattcaagc	atctatttta	gtcctaataa	aggagaaatg	catgtttatg	5040
gcttttttgt	aaatataaat	gcagtgtatc	atggcttaaa	aaatttgttt	ctgtgacaat	5100
gtttgtaaat	ctagccaata	gagtcattta	cagaagaaaa	atgagcatgt	aataatacaa	5160
gaactgtttc	cccctcaaaa	cctgaacctg	aattatttgt	aaaaactgaa	atttaatgat	5220
taaagagaag	ccagaattgt	accctttttt	gtgaattctt	gaacgtactc	ataaatatga	5280
cttattgtat	tgcccttaagt	tttcactcat	tgtcttttga	aagccatatg	ataaaatgat	5340
tttatttaat						5350

<210> 259

<211> 3497

<212> DNA

<213> Homo sapiens

<400> 259

ctgtgggatac	agagggcacg	cctattacaa	ccagaaaact	acaagtataa	cagcgaggat	60
ggatgaacag	gctctattag	ggctaaatcc	aaatgctgat	tcagacttta	gacaaaagggc	120
cctggcctat	tttgagcagt	taaaaatttc	cccagatgcc	tggcaggtgt	gtgcagaagc	180
tctagcccag	aggacataca	gtgatgatca	tgtgaagtgt	ttctgctttc	aagtactgga	240
acatcaagtt	aaatacaaat	aactcagaact	aaccactggt	caacaacagc	taattagggga	300
gacgctcata	tcattggctgc	aagctcagat	gctgaatccc	caaccagaga	agacctttat	360
acgaaataaa	gcccggccaag	tcttcgcctt	gcttttttgt	acagagtatc	tcactaagtg	420
gcccgaagtt	ttttttgaca	ttctctcagt	agtggacctc	aatccaaggg	gagtagatct	480
ctacagtgcga	atcctcatgg	ctattgatcc	agagtgggtg	gatcgtgatg	tggtgcatac	540
atcagaggag	gctcgttagga	atactctcat	aaaagatacc	atgaggggaa	agtgcattcc	600
aaatctgggtg	gaatcatggt	accaaataat	acaaaattat	cagtttacta	attctgaagt	660
gacgtgtcag	tgccctgaag	tagttggggc	ttatgtctct	tggatagact	tatcccttat	720
agccaatgat	aggtttataa	atatgctgct	aggctcatatg	tcaatagaag	ttctacggga	780
agaagcatgt	gactgtttat	ttgaagttgt	aaataaaggga	atggaccttg	ttgataaaat	840
gaaactagtg	gaatctttgt	gtcaagtatt	acagtctgct	gggtttttca	gcattgacca	900
ggaagaagat	gttgacttcc	tggccagatt	ttctaagttg	gtaaatggaa	tgggacagtc	960
attgatagtt	agttggagta	aattaattaa	gaatggggat	attaagaatg	ctcaagagggc	1020
actacaagct	attgaaacaa	aagtggcact	gatgttcgag	ctactaattc	atgaggatga	1080
tgataattct	tctaattatta	ttggattttg	ttacgattat	cttcataatt	tgaaacagct	1140
tacagtgtct	tccgatcagc	aaaaagctaa	tgtagaggca	atcatgttgg	ccgttatgaa	1200
aaaattgact	tacgatgaag	aatataactt	tgaaaatgag	ggtgaagatg	aagccatggt	1260
tgtagaatat	agaaaaacaac	tgaagttact	gttggacagg	cttgctcaag	tttcaccaga	1320
gttactactg	gcctctgttc	gcagagtttt	tagttctaca	ctgcagaatt	ggcagactac	1380
acgggtttatg	gaagttgaag	tagcaataag	attgctgtat	atgttggcag	aagctcttcc	1440
agtatctcat	ggtgctcatc	tctcaggtga	tgtttcaaaa	gctagtgtct	tgccagatat	1500
gatgcgaact	ctggtaacat	caggagtcag	ttcctatcag	catacatctg	tgacattgga	1560
gttcttccgaa	actgtttgta	gatatgaaaa	gtttttcaca	gttgaacctc	agcacattcc	1620
atgtgtacta	atggctttct	tagatcacag	aggtctgcgg	cattccagtg	caaaaagttcg	1680
gagcaggagc	gcttacctgt	ttctagatt	tgtcaaactc	ctcaataagc	aaatgaatcc	1740
tttcattgag	gatattttga	atagaatata	agatttatta	gagctttctc	cacctgagaa	1800
tggccaccag	tccttactga	gcagcgatga	tcaacttttt	atttatgaga	cagctggagt	1860
gctgattgtt	aatagtgaat	atccgggcaga	aaggaaaacaa	gccttaatga	ggaatctggt	1920
gactccacta	atgggagaag	ttaaaattct	tttagaaaaag	ttgatgctgt	cacaagatga	1980
agaaaaggcaa	gcctctctag	cagactgtct	taaccatgct	gttggatttg	caagtccaac	2040
cagtaaagct	ttcagcaaca	aacagactgt	gaaacaatgt	ggctgttccg	aagttttatct	2100
ggactgttta	cagacattct	tgccagccct	cagttgtccc	ttacaaaagg	atattctcag	2160
aagtggagtc	cgtactttcc	ttcatcgaat	gattatttgc	ctggaggaag	aagttcttcc	2220
gttcattcca	tctgtctcag	aacatatgct	caaagattgt	gaagcaaaaag	atctccagga	2280
gttcattcct	cttatcaacc	agattacggc	caaattcaag	atacagggtat	ccccgttttt	2340

acaacagatg	ttcatgcccc	tgcttcatgc	aattttttgaa	gtgctgctcc	ggccagcaga	2400
agaaaatgac	cagtctgctg	ctttagagaa	gcagatgttg	cggaggagtt	acttttgcttt	2460
cctgcaaaaca	gtcacaggca	gtgggatgag	cgaagtata	gcaaatacaag	gtgcagagaa	2520
tgtagaaaga	gtgttggtta	ctgttatcca	aggagcagtt	gaatatccag	atccaattgc	2580
acagaaaaca	tgttttatca	tcctctcaaa	gttggtagaa	ctctggggag	gtaaagatgg	2640
accagtggga	tttgctgatt	ttgtttataa	gcacattgtc	cccgcatgtt	tcctagcacc	2700
tttaaaacaa	acctttgacc	tggcagatgc	acaaacagta	ttggctttat	ctgagtgtgc	2760
agtgcactg	aaaacaattc	atctcaaacg	gggcccagaa	tgtgttcagt	atcttcaaca	2820
agaatacctg	ccctccttgc	aagtagctcc	agaaataatt	caggagtttt	gtcaagcgct	2880
tcagcagcct	gatgctaaag	tttttaaaaa	gtgttcttcc	agagagcaaa	2940	
gcccctgagga	ctggatttcc	ctgtgcctac	ttcatgatca	tgaattccag	ttaatttata	3000
aagaggcgat	ttttgtgtgc	cattcacact	ggtctttttc	acattgtttt	gagcttattg	3060
cagtatatgt	tttgggattt	ttctgtaaaa	tgggtgtaat	tttccctaata	caggtatgta	3120
acaacaaaag	aagttgcctg	catgccggtc	caaatgtgtc	tgtataaaga	tgctcttaaa	3180
agacacaaga	gttatcctag	aaccttaatt	cttttttatt	tgaaatttca	agtcaagtc	3240
tttataaaga	ccatagcagt	ggaaaacagt	gtacttttta	aaaaattgct	gaatataaaa	3300
tctttgaaaa	ttttctttat	gtgtgaagac	acaaagtatg	ggggaagaca	gcaatcaaaa	3360
ctaacttttt	gtagatagcc	atttcatttc	tttaactgt	ttcaacgcca	atatgtattc	3420
tacaaaagag	aatgggttta	ggctccagtg	ttatactttt	ttttatata	atatataaaa	3480
ataaacttta	cgtagtg					3497

<210> 260
 <211> 5238
 <212> DNA
 <213> Homo sapiens

<400> 260						
gaattcggca	cgaggtcttc	ctgtcccga	gctaccagcg	gctcgccgat	gcctgtaggg	60
gcctcctggc	actgctgttt	cctctcagat	acagcttcac	ctatgtgccc	atcctgccc	120
ctcagctgct	ggaggtcctc	agcacaccca	cgcccttcac	cattgggggtc	aacgcggcct	180
tccaggcaga	gacccaggag	ctgtctcgatg	tgattgtgtg	tgatctggat	ggagggacgg	240
tcaccattcc	tgagtgtgtg	cacattccac	ccttgccaga	gccactgcag	agtcagacgc	300
acagtgtgct	gagcatggtc	ctggaccgg	agctggagtt	ggctgacctc	gccttccctc	360
cgcccacgac	atccacctcc	tcctgaaga	tgaggacaa	ggagctgcgc	gcgggtcttcc	420
tgcggtgtgt	cgctcagctg	ctgcagggtc	atcgctgtgt	cctgcacgtc	gtgcgcaccc	480
accgggagcc	tgctcatccg	ttccataagg	cagccttcct	ggggcagcgt	gggctggtag	540
aggacgattt	cctgatgaag	gtgctggagg	gcattggcct	tgctggcttt	gtgtcagagc	600
gtgggggtccc	ataccgcccc	acggacctgt	tcgatgagct	ggtggccac	gaggtggcaa	660
ggatgcgggc	ggatgagaac	cacccccagc	gtgtctgcg	tcacgtccag	gaactggcag	720
agcagctcta	caagaacgag	aaccgtacc	cagccgtggc	gatgcacaag	gtacagaggc	780
ccggtgagag	cagccacctg	cgacgggtgc	cccagacctt	ccccggctg	gatgagggca	840
ccgtgcagtg	gatcgtggac	caggctgcag	ccaagatgca	gggtgcaccc	ccagctgtga	900
aggccgagag	gaggaccacc	gtgccttcag	ggcccccat	gactgccata	ctggagcggg	960
gcagtgggct	gcattgtcaac	agcgcccggc	ggctggaggt	tgtgcgcaac	tgcatctcct	1020
acgtgtttga	ggggaaaatg	ccttgaggcca	agaagctgct	cccagccgtg	ttgagggccc	1080
tgaaggggag	agttgcccgc	cgctgcctcg	cccaggagct	gcacctgcat	gtgcagcaga	1140
accgtgcggg	cctggaccac	cagcagtttg	actttgtcgt	ccgtatgatg	aactgctgcc	1200
tgcaggactg	cacttctctg	gacgagcatg	gcattgcggc	ggctctgctg	cctctggcca	1260
cagccttctg	ccggaagctg	agccccgggg	tgacgcagtt	tgcatacagc	tgtgtgcagg	1320
agcagctggg	gtggagcacg	ccacagttct	gggaggccat	gttctatggg	gatgtgcaga	1380
ctcacatccg	ggccctctac	ctggagccca	cggaggacct	ggccccgccc	caggaggttg	1440
gggaggcacc	ttcccaggag	gacgagcgct	ctgccctaga	cgtggcttct	gagcagcgcc	1500
gcttgtggcc	aactctgagt	cgtgagaagc	agcaggagct	ggtgcagaag	gaggagagca	1560
cggtgttcag	ccaggccatc	cactatgcca	accgatgag	ctacctctc	ctgcccctgg	1620
acagcagcaa	gagccgccta	cttcgggagc	gtgccgggct	gggagacctg	gagagcgcca	1680
gcaacagcct	ggtcaccaac	agcatggctg	gcagtgtggc	cgagagctat	gacacggaga	1740
gcggtcttga	ggatgcagag	acctgcgacg	tagctggggc	tgtgttccgc	ttcatcaacc	1800
gctttgtgga	caaggtctgc	acggagagtg	gggtcaccag	cgaccacctc	aaggggctgc	1860
atgtcatggg	gccagacatt	gtccagatgc	acatcgagac	cctggaggcc	gtgcagcggg	1920
agagccggag	gctgccgccc	atccagaagc	ccaagctgct	gcggcccgcc	ctgctgccgg	1980
gtgaggagtg	tgtgctggac	ggcctgcgcg	tctacctgct	gccggatggg	cgtgaggagg	2040
gcgcgggggg	cagtgtctgg	ggaccagcat	tgctcccagc	tgaggcgccc	gtcttctcca	2100
ccacgtatcc	ggctcatcttc	acggggatgc	cacaggaccc	cctggttggg	gagcaggtgg	2160
tgggtccgctc	cttcccgggtg	gctgcgctga	ccaaggagaa	gcgcacagc	gtccagaccc	2220

ctgtggacca	gctcctgcag	gacgggctcc	agctgcgctc	ctgcacattc	cagctgctga	2280
aaatggcctt	tgacgaggag	gtggggctctg	acagcgccga	gctcttccgt	aagcagctgc	2340
ataagctgcg	gtacccgcgcg	gacatcaggg	ccacctttgc	gttcaccttg	ggctctgccc	2400
acacacctgg	ccggccaccg	cgagtcacca	aggacaaggg	tccttccctc	agaaccctgt	2460
cccggaaacct	ggtaagaag	gccaagaaga	ccatcgggcg	gcagcatgtc	actcgcaaga	2520
agtaacaacc	ccccagctgg	gagcaccggg	gccagccgcc	ccctgaggac	caggaggacg	2580
agatctcagt	gtcggaggag	ctggagccca	gcacgctgac	cccgctcctca	gccctgaagc	2640
cctccgaccg	catgaccatg	agcagcctgg	tggaaagggc	ttgctgtcgc	gactaccagc	2700
gcctcggctc	gggcaccctg	agcagcagcc	tgagccgggc	caagtctgag	cccttccgca	2760
tttctccggg	caaccgcctg	tatgccatct	gccgcagcta	cccagggctg	ctgatcgtgc	2820
gcccagagtgt	ccaggacaac	gccctgcagc	gcgtgtcccg	ctgctaccgc	cagaaccgct	2880
ttcccgtggg	ctgctggcgc	agcgggctgt	ccaaggcggt	gctgctgcgc	tctggaggcc	2940
tgcatggcaa	aggtgtcgtc	ggcctcttca	aggcccagaa	cgcaccttct	ccaggccagt	3000
cccaggcgga	ctcgagtagc	ctggagcagg	agaagtacct	gcaggctgtg	gtcagctcca	3060
tgccccgcgt	cgccgacgcg	tcgggacgca	acacgccttag	cggcttctcc	tcagcccaca	3120
tgggcagtc	cggtaagtgg	ggcagtgctc	ggaccagtgg	acgcagcagt	ggccttggca	3180
ccgatgtggg	ctcccggcta	gctggcagag	acgcgctggc	cccaccccag	gccaacgggg	3240
gcccctcccg	cccgggcttc	ctgcgtccgc	agcgagcagc	cctctatata	cttggggaca	3300
aagcccagct	caagggtgtg	cggctcagacc	ccctgcagca	gtgggagctg	gtgcccattg	3360
aggtattcga	ggcacggcag	gtgaaggcta	gcttcaagaa	gctgctgaaa	gcatgtgtcc	3420
caggctgccc	cgctgctgag	cccagcccag	cctccttcc	gcgctcactg	gaggactcag	3480
agtggctgat	ccagatccac	aagctgctgc	aggtgtctgt	gctgggtggg	gagctcctgg	3540
attcaggctc	ctccgtgctg	gtgggcctgg	aggatggctg	ggacatcacc	accagggtgg	3600
tatccttggg	gcagctgctc	tcagaccctc	tctaccgcac	gctggagggg	tttcgcctgc	3660
tgggtggagaa	ggagtggctg	tccttcggcc	atccttccag	ccaccgtgga	gtcacacacc	3720
tggccggggc	gagcagcgcg	ttcacaccgc	tcttcctgca	gttcctggac	tgcgtaacac	3780
aggtccacct	gcagttcccc	atggagtttg	agttcagcca	gttctacctc	aagttcctcg	3840
gctaccacca	tgtgtcccg	cgtttccgga	ccttcctgct	cgactctgac	tatgagcgca	3900
ttgagctggg	gctgctgtat	gaggagaagg	gggaacgcag	gggcccagg	ccgtgcagg	3960
ctgtgtggga	gtatgtggac	cggctgagag	agaggacgcc	tgtgttccac	aattacatgt	4020
atgcgcccga	ggacgcagag	gtcctgcggc	cctacagcaa	cgtgtccaac	ctgaagggtgt	4080
gggacttcta	cactgaggag	acgctggccg	aggccctccc	tatgactggg	aactggccca	4140
ggggccccc	gaaccccag	aggaagaacg	gtctgatgga	ggcgtcccca	gagcagcgcc	4200
gcgtgggtgtg	gccctgttac	gacagctgcc	cgcgggccc	gcctgacgcc	atctcacgcc	4260
tgctggagga	gctgcagagg	ctggagacag	agttgggcca	accgctgag	cgctggaagg	4320
acacctggga	ccgggtgaag	gctgcacagc	gcctcgaggg	ccggccagac	ggcctgggca	4380
cccctagctc	cctccttgtg	tcacaccgc	cccaccaccg	tcgctcgctg	gggtgtgtacc	4440
tgcaaggagg	gcccgtgggc	tcacacctga	gcctcagcct	ggacagcgac	cagagttagt	4500
gctcaaccac	atccggctcc	cgtaaggctg	ccgcgcgcag	caccagcacc	ctgtacagcc	4560
agttccagac	agcagagagt	gagaacaggt	cctacgaggg	cactctgtac	aagaaggggg	4620
ccttcatgaa	gccttggga	gcccgtgtgt	tcgtgctgga	caagaccaag	caccagctgc	4680
gctactacga	ccaccgtgtg	gacacagagt	gcaaggggtg	catcgacttg	gcggagggtg	4740
aggtctgtgg	acctggcacg	cccactatgg	gtgcccctaa	gactgtggac	gagaaggcct	4800
tctttgacgt	gaagacaacg	cgtcgcgttt	acaacttctg	tgcccaggac	gtgcccctcg	4860
cccagcagt	gggtggaccgg	atccagagct	gctgtcggac	gcctgagcct	cccagccctg	4920
cccggctgct	ctgctctcgt	taccgaccac	taggggtggc	agggccgccc	cggccatggt	4980
tacagccccg	gcccctcgaca	gtactgagcc	ccgagccccc	agcacttgtg	tgtacagccc	5040
ccgtccccgc	ccgcccccgc	ccggccggcc	ctaacttatt	ttggcgtcac	agctgagcac	5100
cgtgcccggga	gggtggccaag	gtacagcccg	caatgggcct	gtaaatagtc	cggccccgct	5160
agcgtgtgct	gggtccacggg	ctcaggcgag	tttctagaaa	gagtctatat	aaagagagaa	5220
ctaaccgcaa	aaaaaaaa					5238

<210> 261
 <211> 6450
 <212> DNA
 <213> Homo sapiens

<400> 261						
cgccctgggtc	cgggccatgt	ccgcgtgagg	accccgccgc	tgctgcggct	cccgttccgg	60
ccctggccccc	tctgcccggc	agcggggcgc	accatgggct	ccattctcag	ccgcccgcac	120
gcgggggtgtg	aggacatcga	catccaggcg	aactcgccct	atcgctaccc	tcggaagtcc	180
ggaaaactact	ttgcttcgca	ctttttcatg	ggaggagaga	aattcgacac	ccccaccct	240
gaagggttacc	tctttggaga	gaacatggat	ctgaacttcc	tgggcagccg	cccgggtccag	300

tttccctacg	tcactcctgc	ccccacgag	cccgtaaga	cgctgaggag	cctgggtgaac	360
atccgcaaaag	actccctgcg	gctgggtgagg	tacaaagacg	atgccgacag	ccccaccgag	420
gacggcgaca	agccccgggt	gctctacagc	ctggagttca	ccttcgacgc	cgatgcccgc	480
gtggccatca	ccatctactg	ccaggcatcg	gaggagtcc	tgaacggcag	ggcagtatac	540
agccccaaga	gccccctcgt	acagtcggag	accgtccact	acaagagagg	ggtgagccag	600
cagttctccc	tgccccctctt	caagattgac	ttctcggaat	ggaaggatga	cgagctgaac	660
tttgacctgg	accggggcgt	gtttccagta	gtcatccagg	ctgtgggtgga	cgaaggagat	720
gtgggtggaag	tgactggcca	cgccccagtg	ctcttggtcg	cctttgaaaa	gcacatggac	780
ggcagcttct	ctgtgaagcc	tttaaagcag	aagcaaatgt	tggaccgggt	cagctacctc	840
ctgcaggaga	tctatggcat	tgagaacaag	aacaaccagg	agaccaagcc	ctcggacgac	900
gagaacagcg	acaacagcaa	cgagtgtgtg	gtgtgcctgt	ccgacctgcg	ggacacgctg	960
atcctgcccc	gcccgcaccc	gtgcctctgt	acctcctgcg	ccgacacgct	gcgctaccag	1020
gccaaacaact	gccccatctg	ccggctgcct	ttccggggcc	tcctgcagat	ccggggcggtg	1080
cggaagaagc	caggagcccc	gtcccccggtg	tccttcagcc	ccgtcctggc	ccagagcctg	1140
gagcatgatg	agcactcttg	tccttttaaa	aaatcaaagc	cgacccccgc	ctccctggcc	1200
agcaagaaaac	ctaaaaggga	aacaaactct	gacagcgctc	cacctggcta	cgagcccatc	1260
tcgctgctcg	aggcgctcaa	cgccctccgg	gctgtctccc	cggccatccc	ctcggccccct	1320
ctttatgaag	aatcaccta	ttcaggcatc	tcggacggcc	tgtcccaggc	cagctgtccc	1380
ctcgcgcta	tcgaccacat	cctggacagc	agccggccaga	agggcaggcc	gcagagcaag	1440
gcccccgaca	gcaccctacg	gtccccgtct	tcccccatcc	acgaagagga	tgaggagaag	1500
ctctccgagg	acgtggacgc	ccctccccca	ctgggtggcg	cagagctggc	cctgcgggaa	1560
agcagctccc	ctgagagttt	cataacagaa	gaggttgatg	agtgcgtcgc	accacagcaa	1620
gggacccgag	cagcttccat	tgagaatgtc	tcgacggaca	gcagccccga	gcactgtggc	1680
cgaggccccac	ctgctgacat	ctacctgcca	gccccggggc	ccgactcctg	ctctgttggt	1740
atagacgagt	aagccggtac	gtgaccttcc	agacgcgctt	cgggggctct	gacgcgcgctc	1800
cttgagagaga	ggagccccctc	cctgctctct	ggcggggggtt	ccttctgggt	tttgggtctt	1860
cgtccgcctc	cgcactcttc	cagggggccct	ggattccgaa	tcagagctc	tcagtggtc	1920
gctgcacctt	ccccagaaa	gtggcctcct	gggggggtcct	gactttcggg	gccagagggtc	1980
tctccatctg	gactaggcgg	ccggteaggc	tcttcttcca	gccttgaggg	gccctggaac	2040
agtcccagcc	caggcagggg	gacagacaca	gcccagggtgc	gccagagcca	ctgtccactg	2100
cgggaggcag	gagcttgagg	gatgagggca	gcaccgtgga	gggaacccca	gggagacatg	2160
gggtgagcgt	cccaagggga	gaggcctggg	cctggccttg	ttccggatgg	tcaccaccat	2220
agttcgcatc	ggtcctgcag	cagacacgtt	aggacgctca	gcagggtccac	tcccgtgttc	2280
cggtcatggc	tttaacaatt	catggggaaa	gaatgcgccc	cgattgggag	agccccctgga	2340
tcacgtcttc	ccaagctcag	tcctgtctct	ttggaggagg	tcgctcctcg	agggggccctc	2400
tggtgcccag	gggagagtat	cttgcgctcct	gtcctgaggg	cgtccgctca	cacagccacc	2460
tgtcccccc	ctccctcctt	ccctgtgcct	catggccacc	gtgggcctgg	catcaccatg	2520
ggcctggcac	acagtcctct	gtgggtgccc	tttgtgccat	gagccactg	ctgccgactc	2580
acctgtccct	cccagtactg	gaaccttctg	gaacaccagc	actaaaagat	aggaggccct	2640
gtgaggttgg	catcccccat	ccccccccaa	gaggtgccct	ctaccagsgt	ggcccagggtg	2700
agtgttttac	agaaggcggc	tctgtccagg	cagtggttcg	cacctataag	cccggctactt	2760
tgggagaccg	aggggataga	tcacttgagc	ccaggaattc	aagatcagtg	tagaaaaacat	2820
agacccccctc	tctataaaaa	ataaaaaaatt	ggcttgggcg	tggtagcttg	tgctgtgggt	2880
cccagctact	caggggtgct	gaggtgggag	gattgccgga	gctggggagg	tcaaggccca	2940
ctccagcctg	agacgctgtc	tcaataaaaa	aaaatacaca	cacacccacc	cacccactcc	3000
agcctgagac	cctgtctcaa	gaaaaaaaaa	aatacacaca	cacacacaca	cacacacaca	3060
cacacacaca	cacacacaca	cacacggggg	agagagagaa	ggcagctcca	ggagtggcac	3120
caaaatgtag	gcagacggat	tggggaccct	ctgccttccc	agaggggtctt	ggcacacaag	3180
ctgcgtgcag	ctctgggtctg	ccgaggccca	tgcagcctgc	tgggagggtgc	ctggccggggg	3240
gtgcaggctc	taagaggccc	tttccccctg	ggtggacttg	agccgggtca	gggagaactt	3300
cgcttctttt	gactgcgctc	tgcattccca	tgaacctctg	tcttcttgag	cccagcgagt	3360
ccctctgttg	accctgtccc	tgagccatta	taccctaga	ttgaaacagt	cagcaccttt	3420
cagacggccc	cggcctgcgc	atcggtggaa	ggtgccatgc	gaatgtcacg	attcaggtca	3480
agcttccgga	gctggggagt	gcaggtgtga	tctagaacag	ggctcacagc	ctcggaacc	3540
tgctctcgcc	gcccggccccg	aagaaaaatg	acgccttcca	ccggagagtg	gggcctgggc	3600
cgtgtctgct	gggagccatg	tgtcagggtt	ggtggctggg	tgtcaggcag	ccctgaggcc	3660
atgctggccc	cgtcccaggc	tctgcaccag	caccattgcc	caagccccag	ggacgccaga	3720
cccatccggg	gacagcgccc	ggcggtgctg	tgcaggccac	agtctgggca	ttggggctct	3780
gtgggaggct	cctctctttg	ccttgacgta	gccatccggg	ggetactctg	agcacgggct	3840
tgttctcacc	cagggccgct	cccagaccct	gcaccctggg	ttgaccgagt	tccaccctaa	3900
cccagccgta	agaaccttgg	caggacagtg	ctggccaca	tcccaggaaa	ccggaaccag	3960
ggcaagggca	ggaggcccgag	agggcatcca	ctgcgggtgc	gtgtcgcgct	ctgactcggg	4020
gctgcagatc	tgtgtgggtt	gtccggggat	ctgggatcgt	ctgtcccaag	agggacacag	4080
cgtatttggc	acagttaggg	agtccccggg	cccttggtgt	gctcacatct	gagtgaatgc	4140

tggttggtggcc	acaggcggg	ggagtggggg	tgctggatgg	cccagccct	ctgggggtcc	4200
agatcggttag	gagcgggtg	cgtggcacc	ggcatccag	tgtgacctc	ctccctctgc	4260
ccccacctgc	aggacggccc	acctccatg	agacggccca	cggcctcgcc	accaccagcc	4320
ccacctggcc	tccacttggt	ggccccagcc	ccgatccag	cgccgcccag	ctgacccac	4380
tctgagagcc	tggccgagct	ggcagcatgg	agccctcgcc	tccccagact	ttgcccagg	4440
gctgctccgg	accccggtgt	gagccggcct	cctgtctgca	tgccccctgt	ggccaccagg	4500
ctccgagggg	ccgtgggtgac	tcttgatcaa	agagcacagt	gaactgtccc	ttctgagtct	4560
ccctttttcta	cagttgatata	atgttaact	ggtacaagat	gaaggacagc	agctttccat	4620
ccctagtcca	gagccccctg	tccccagggt	cctgtgggct	gagcggctgg	ggctggggct	4680
gcccacgtgt	ggcctccgct	ggctctgct	gctcctgcaa	cagtgcggtc	cctgcccga	4740
gaactcagga	ggcctgcaga	agagaactga	ttggtggctg	aagcaccatc	ttcacagatg	4800
ttcaggggca	gtggggggct	ccaggcacgg	tcaatgaagg	aaacagtgc	tgtccaccca	4860
ccctgcgtgt	cactgtggcg	gcctggctgt	cgctgctttt	tgtcctctgc	cgtgtttgctg	4920
cggcctcagt	gcccctccctg	gtgcgtctgc	gctggggccc	tcagtgcctg	gggccttggg	4980
gtgcattggg	gcccgcctgg	gcagctagag	gtctccagcc	cgggtgctggg	cctggccgag	5040
gggaggaggc	acagctgctt	ccagcagcca	gcattcagtg	gccttgtcac	caagctccac	5100
acctcctcct	ggtgctggct	ttggtgacat	cacaaggccc	ctccagggtg	aggggcttct	5160
gtttggcagg	ccctgcccag	ggaggacctg	gtggcctcct	cattctcttt	tgccattgga	5220
atgtccccct	gcagttctct	tctctttttt	tttttttttg	agatggagtt	tcactcttgc	5280
tgcccaggct	ggagtgcagt	ggctcaatct	cgggtcactg	caacctccgc	ctcccggtt	5340
caagtgatcg	tcctgcctta	ggctcctgag	tagctgggga	ttacagggtg	ctaccagcat	5400
gctcggttaa	tttttttgta	tttttagtag	agaagggtat	tcaccatgtt	ggccgggctg	5460
gtctcaaaact	cctaagggtca	tccacctgcc	tcggcctccc	agagtgcctga	gattacaggc	5520
gtgagcctcc	gcgcccggcc	cccttgcaat	tctctctgat	ttggtttggt	ctgtctcagg	5580
cttctgtggc	aggactggcc	cagggaggag	gaagccagca	gcacacctgg	ggaatggggt	5640
cccggccggg	aggcttggcc	tctggggcag	ctcgtcctgt	tttgtttggt	tggtttgttg	5700
tttttttaaa	ggtaaacctc	ctgggcccga	gatggcaaa	ggagtgcctg	ggcctgggtga	5760
cccagggtcg	gatccacccc	tgccggagccc	tgggcccaggc	agggtgctgc	tgctcacctg	5820
gctctggagg	gctgcccctg	agctgggctt	ggggacagggt	cggctgtggg	gcagctcagt	5880
acccctccctg	aggctcacgg	tggtctcgag	catgagctct	gcctcctggg	cgagacccag	5940
cagtggacag	cacggctcctc	acacccagct	ccctgcacac	ccaggcccagc	cacccctccc	6000
gctcgtgcac	aggcacgcag	atgcgctcac	acgtacacac	acacaaatgc	acgcccactt	6060
gcacatgctc	acgcacacgt	tcacacatgc	acactcacgc	tcacacatgc	tgtcacgcac	6120
acacacacgc	acatactcct	gcacatgttc	ccatgcacgt	gtgtgcactc	ggaccgagca	6180
tctcccacgc	acctctaccc	caccccaagc	acctctctcc	ccccatgcac	ctctccccc	6240
caacacacac	agccccctgc	accgcccggc	ccccgcccc	accaaggccc	cagcctctgg	6300
ccatcagtc	tggtgcccaga	gctttgctg	aagttcgggc	cgcagagtgg	cccgtggga	6360
ctcccatgtg	ctgcgctctg	atgtgctcag	atgggctcat	cgttgggtcg	tttttactgt	6420
atattttatag	taataaaaatc	atgcagcaat				6450

<210> 262

<211> 4611

<212> DNA

<213> Homo sapiens

<400> 262

gtgtcgctcg	ctttctgtca	gcctctctcc	ctctccctct	ccctctcct	tcctctcgct	60
tcctctctcg	cacctgagcg	taagcacctg	cccgggccc	gctccctcct	cctctccct	120
ccctctttcc	ccgcccggcc	gcgggagcct	cgtggctgctg	tcaccgccc	ccccccagac	180
aagatggaca	ccgcccggagga	agacatatgt	agagtgtgtc	ggtcagaagg	aacacctgag	240
aaaccgcttt	atcatccttg	tgtatgtact	ggcagtatta	agtttatcca	tcaagaatgc	300
ttagtccaat	ggctgaaaca	cagtcgaaaa	gaatactgtg	aattatgcaa	gcacagattt	360
gcttttacac	caattttattc	tccagatatg	cccttcacggc	ttccaattca	agacatat	420
gctggactgg	ttacaagtat	tggcactgca	atagcatatt	ggtttcatta	tacacttggtg	480
gcctttgcat	ggttgggagt	tggtcctctt	acagcatgcc	gcattctaca	gtgcttgttt	540
actggctccg	tgagctcact	actgacgtg	ccattagata	tgctgtcaac	ggaaaaattg	600
ttggcagatt	gtttgcaggg	tggtttgtg	gtgacgtgca	cactgtgtgc	attcatcagc	660
ctgggtgtgt	tgagagagca	gatagtccat	gggggagcac	caatttgggt	ggagcatgct	720
gccccaccgt	tcaatgctgc	ggggcatcac	caaaatgagg	ctccagcagg	aggaaatggt	780
gcagaaaaatg	ttgctgctga	tcagcctgct	aacccaccag	ctgagaacgc	agtgggtggg	840
gaaaaccctg	atgcccagga	tgaccaggca	gaagaggagg	aggaggacaa	tgaggaggaa	900
gatgacgctg	gtgtggagga	tgccggcagat	gctaataacg	gagcccagga	tgacatgaat	960
tggaatgctt	tagaatggga	ccgagctgct	gaagagctta	catgggaaag	aatgctagga	1020
cttgatggat	cactagtttt	tctggaacat	gtcttctggg	tggtatcttt	aaatacactg	1080

<400> 263

```
ccgctctccg ctgogggggga ggccatggcg gaaccttccc agggcccgac cccggccccg 60
gctgcgcagc ccgggcccct tcagtcacca gccctgccc caactccgac tccctgcaccc 120
agccccggtt cagccccgat tccgactccc accccggcac cagccccgc cccagctgca 180
ggccagcccg gcagcacagg gactgggggg cccggggtag gaagtggggg ggccggggagc 240
ggggggggatc cggctcggcc tggcctgagc cagcagcagc gcgccagtca gaggaaggcg 300
caagtccggg ggctgccccg cgccaagaag cttgagaagc taggggtctt ctgggcttgc 360
aaggccaatg gaacctgtaa gtgtaatggc tggaaaaacc ccaagccccc cactgcaccc 420
cgcatagatc tgcagcagcc agctgccaac ctgagtgagc tgtgcccgag ttgtgagcac 480
cccttggtctg accacgtatc ccacttggag aatgtgtcag aggatgagat aaaccgactg 540
ctgggggatgg tgggtggatgt ggagaatctc ttcattgtctg ttcacaagga agaggacaca 600
gacaccaagc aggtctatct ctacctcttc aagctactgc ggaaatgcat cctgcagatg 660
accgggcccgt tgggtggagggt gtccctgggc agccctccat ttgagaaacc taatattgag 720
caggggtgtgc tgaactttgt gcagtacaag ttttagtcacc tggctccccg ggagcggcag 780
acgatgttctg agctctcaaa gatgttcttg ctctgcctta actactggga gcttgagaca 840
cctgcccagt ttcggcagag gtctcaggct gaggacgtgg ctacctacaa ggtcaattac 900
accagatggc tctgttactg ccacgtgccc cagagctgtg atagcctccc ccgctacgaa 960
accactcatg tctttggggc aagccttctc cggctccattt tcaccgttac ccggccggcag 1020
ctgctggaaa agttccgagt ggagaaggac aaattggtgc ccgagaagag gaccctcatc 1080
ctcactcact tcccaaaatt cctgtccatg ctggaggagg agatctatgg ggcaaaactct 1140
ccaatctggg agtcaggctt caccatgcca ccttcagagg ggacacagct ggttccccgg 1200
ccagcttcag tcagtgcagc ggttggtccc agcaccacca tcttcagccc cagcatgggt 1260
ggggggcagca acagctccct gagtctggat tctgcagggg ccgagcctat gccaggcgag 1320
aagaggacgc tcccagagaa cctgaccctg gaggatgcca agcggctccg tgtgatgggt 1380
gacatcccca tggagctggg caatgaggct atgctgacca tcaactgacc tgctgccatg 1440
ctggggcctg agcagagcct gctttcggcc aatgcggccc gggatgagac agcccgcctg 1500
gaggagcgcc gcggcatcat cgagttccat gtcacggcca actcactgac gcccaaggcc 1560
aaccggcggg tgttgctgtg gctcgtgggg ctgcagaatg tcttttccca ccagctgccg 1620
cgcatgccta aggagtatat cgcccgcctc gtctttgacc cgaagcaca gactctggcc 1680
ttgatcaagg atgggggggt catcgggtggc atctgtctcc gcattgttcc caccaggggc 1740
ttcacggaga ttgtctcttg tctgtcacc tcgaatgagc aggtcaaggg ttatgggacc 1800
cacctgatga accacctgaa ggagtatcac atcaagcaca acattctcta ctctctcacc 1860
tacgccgacg agtacgccat cggctacttc aaaaagcagg gtttctccaa ggacatcaag 1920
gtgcccaga ggcgtacctt gggctacatc aaggactacg agggagcgac gctgatggag 1980
tgtgagctga atccccgat cccctacacg gagctgtccc acatcatcaa gaagcagaaa 2040
gagatcatca agaagctgat tgagcgcaaa caggcccaga tccgcaagggt ctaccggggg 2100
ctcagctgct tcaaggaggg cgtgaggcag atccctgtgg agagcgttcc tggcattcga 2160
gagacaggct ggaagccatt ggggaaggag aaggggaagg agctgaagg ccccgaccag 2220
ctctacacaa cctcaaaaaa cctgctggcc caaatcaagt ctacccccag tgctggccc 2280
ttcatggagc ctgtgaagaa gtcggaggcc cctgactact acgaggtcat ccgcttcccc 2340
attgacctga agacctgac tgagcggctg cgaagccgct actacgtgac ccggaagctc 2400
tttgtggccg acctgcagcg ggtcatcgcc aactgtcgcg agtacaaccc cccggacagc 2460
gagtactgcc gctgtgccag cgccctggag aagttcttct acttcaagct caaggaggga 2520
ggcctcattg acaagtaggc ccatcttttg gccgcagccc tgacctggaa tgtctccacc 2580
tcggattctg atctgatcct taggggtgtc cctggcccca cggaccggac tcagcttgag 2640
acactccagc caagggtcct ccggaccoga tccctgcagct ctttctggac cttcaggcac 2700
cccaagcgt gcagctctgt cccagccttc actgtgtgtg agaggtctcc tgggttgggg 2760
ccagccccc cttagagtagc ttgtggccag ggatgaacct tgcccagccg tgggtggccc 2820
caggcctggt cccaagagc tttggaggct tggattcctg ggccctggcc aggtggctgt 2880
ttccctgagg accagaactg ctcatcttag cttgagtgtg ggcttcaggg gttggaagtt 2940
cagcccaaac tgaagggggc catgccttgt ccagcactgt tctgtcagtc tccccaggg 3000
gtggggggta tggggaccat tcattccctg gcattaatcc cttagaggga ataataaagc 3060
tttttatttc tctg 3074
```

<210> 264

<211> 6184

<212> DNA

<213> Homo sapiens

<400> 264

```
ggcgaggggt gcacggcggc cacctgagtg gcgcggcggt gtcagggtct tgctcaagta 60
ccaactctat ggaccagga caggtttgtc ccatgacctg ctgtgaacag tgtgttgtct 120
catagaagat tcggttggca aaccatctct ctattgcctt acagagcaag caaagaagat 180
ggatcgattg aagagccatc tgactgtgtg ctttctacct tctgtgccct ttttaattct 240
```

agtatccact	ctagccaccg	ctaagagtgt	gactaacagc	acttttaaag	gcactaacgt	300
gggtcttggg	tctgtgccc	taatcattgc	cagaactgac	catatcatag	tcaaggaagg	360
gaacagtgcc	ttgattaaact	gtagtgttta	tggcatccct	gaccacagct	tcaagtggta	420
taattccatt	ggcaagctgc	tgaagaaga	agaggatgag	aaggagagag	gaggaggaaa	480
atggcaaatg	cacgacagcg	gctccttgaa	catcaccaag	gtatccttct	cagaccgagg	540
taaaatacacg	tgtgtggcct	ctaaccatcta	cggcaccgtg	aacaacacgg	tgaccttgcg	600
cgtcatcttc	acttctggag	acatgggtgt	ctactacatg	gtcgtgtgcc	tgggtggcct	660
caccatcgct	atgggtcctca	atatcaccgg	cctgtgcatg	atgagcagcc	atctaaagaa	720
gactgagaag	gccatcaatg	agttcttttag	gaccgaagg	gcagagaagc	tgcagaaggc	780
atttgagatc	gccaaagcga	tccccatcat	cacctccgcc	aaaactctag	agcttgccaa	840
agtcacccag	ttcaaaaacca	tggagtctgc	ccgtacatc	gaagagcttg	ccaggagcgt	900
gcctctgccc	cctctcatta	tgaactgcag	gactatcatg	gaggagatta	tggaggtgg	960
tgggctggag	gagcaggggc	agaattttgt	gaggcatact	ccagagggcc	aggaggccgc	1020
agacagggat	gaggtctaca	caatccccc	ctctctgaag	cggagcgcact	cccctgccgc	1080
tgactcggac	gcctcatcgc	tgcacgagca	acctcagcaa	attgccatca	aggtgtcagt	1140
tcaccccgag	tccaaaaaag	agcatgcaga	tgaccaagag	ggtggacagt	ttgaagtcaa	1200
agatgtagag	gagacagaac	tgtcggcgga	acattcccc	gaaactgcag	aaccttctac	1260
cgatgtcacg	tccaccgagc	taacatctga	agagccaaca	cctgttgagg	taccagataa	1320
ggtactgccg	ccagcttacc	tgggaagccac	agagccagca	gtgacacatg	acaaaaaac	1380
ctgcattatt	tacgaaaacc	atgtctaata	ccaacccgga	aaagctatgc	atatcaagaa	1440
aatcaggggc	tgctccttgt	aatacagatg	tagtacgcac	ttgccgctaa	gccttaccag	1500
gagactctca	tcccttaggt	aggagtgatg	ccactttaa	aggagaaaca	cctgcctgca	1560
gtgaattggg	ctggaatttc	cccagtagag	aagggtgcga	gaaacatcag	ggtgcagaat	1620
tgataccaga	cagaaggtgt	ctatgtgata	atgagtttca	gaggctgatc	tctgccaaat	1680
accttaattg	gtgatgcctt	cttgggcaag	agtaaccac	tgtaagatat	tctgagttca	1740
agaacctgt	ccagtgcctc	ctgcattgct	tttcccttta	aaaagtatag	gtctgctaca	1800
atagcaaatg	cacgtacgtg	ggttttttgc	agtttcttct	cagttttaat	tttgcttttc	1860
ctttataatg	gggtcattgt	tattaatact	aattgttctt	tctggtttag	tcctcattgc	1920
cacttttgtc	cttatgtttc	cctagaacac	gtacctcaga	gactttggta	tcagtcacca	1980
gtaccagggc	tgatattctac	aagtacacatt	acatttgtca	tgttccaaag	tagttacgag	2040
gcttgttatt	tttttttcat	tccccaggcc	tatttccata	gatagctttt	tttgtttgtt	2100
tccaacgaag	ctgctgttaa	acgaaaactga	gaaaaacttt	gccccggaat	agcactttaa	2160
tagtcaaaaa	tgtgtttacc	tgtctgattg	agtgcgctt	ttgggtgagc	cagctgagat	2220
gtagagggag	attgtaaaaag	gttaaatata	cccacaccac	ccatgaaaagt	cactgtttta	2280
gttacatcat	cctccaaaata	aagactgatt	ctttacctgg	aaaatatatt	gcttccaaag	2340
acatcagatt	cagtggattc	ctgtagggtta	tagaatattg	gcttccaaac	aggcttgag	2400
ggaccatag	ctggtggatg	acatataaacc	aggtccactt	ttatgaactg	catagctgac	2460
ttggttgttc	ttaaaagagga	aagcgaaggg	ttagggtaat	agcaaaaggga	actgtgccat	2520
cagatttttat	gccaaaactg	ttgataaatt	attgcagtcct	gcaagaaaagt	ggttatatgt	2580
gaggtgcgtg	atgttatgga	aagaagacaa	aattagtcac	ccaaaggctt	aataccact	2640
gtgccaataa	ccagctgcct	ggctttggac	aagtctggac	ctcaggtccc	ttatctgtag	2700
aaggggcaga	tgacatgagc	tctgagcact	gttgaaatgg	tatcactgtc	acacagaacc	2760
aaaccaatat	tgacatgcct	gctccttctt	acaattgactt	taaagatttt	tgctttcatt	2820
tcttgggtcca	cctaaccattt	tcattgcttca	ttactttaat	aagaatgctg	gttttgagaa	2880
atagcatttt	aaacaaattg	tggatcttct	ccttccaaaa	aaaccattag	gaccacatct	2940
gcaattaaaga	tttaatatgt	gtgagaatga	gtggttttat	ttaattttcc	cttaaaagca	3000
aaggagacag	taatcttaat	aaattcatag	gggcccgtgg	cacatcaggt	aatgggggta	3060
tgatgtccaa	gatttgcattg	atcacattgg	tgatgagagc	agaccagat	gtttagtcct	3120
cactctgtca	ccatctgagg	aggtagcctt	ggacaactcc	cttccctctc	ctgggattta	3180
atctttttca	tctgtaaaat	atgcaggtag	tactcgaggg	tctacaggat	cccttctagt	3240
tgaacatttt	atagttcaca	gaaagtttgc	agtcttccag	gataaccaac	ccccgttgca	3300
tgagacaagc	aaaaaatggg	tccatgaaat	tgggactttt	tgccatccaa	actttacaac	3360
aaacattatc	tgggtctgtta	attgagagca	gtgggcttgg	ttttaaacct	agccttgatt	3420
agtttgttta	tagataactg	ttgtggaagg	tgatagaact	agtcattggg	tttgatgaga	3480
catctcttga	aaaggactga	actgttgact	tctggttaga	agtgccttgg	gcagtcacat	3540
aaagaaatga	gcagtgagaa	atcaggagaa	attatgactc	ctgttgggct	ttctggacta	3600
gcatttgtatg	tctttgggtt	gcagaaaagt	tttaacacca	cctcttagaa	tataaaaaatt	3660
ttccagttgt	catggaggtc	cacagattca	ttaccatggg	tttatatgcc	caaagcaaca	3720
acagaggact	taagttcatt	ttgtgatact	gtatggatgt	taccccatcc	tattcagttg	3780
tcattccacc	caaaccocatg	tgtaggtttc	cacatggaaa	ggagaaggga	tccattccac	3840
ctagacattg	aatagtgaat	ataagctaaa	agtgggcaga	ttttcagtg	agcaagagca	3900
gaaatatgcg	gccaaagaa	gtttcctgat	gttttttgct	gcttttagact	gcagtgaggga	3960
gagcttatgt	agattttcaa	aacttttctc	ctctttaagg	catcataatg	ctctcggttt	4020
tgataacaac	tgacataaag	ggaggttgac	ttaaaatggg	aattttctcct	tcacaaaaatg	4080

ccagcagcag	cagcagttgg	cacttcttct	tcaacagttt	cagaccttga	agatgagaat	1320
atctgatcag	aacatcattc	cctcagtaac	taggtctgtg	tccgtgccag	atactggctc	1380
tatctgggag	cttcagccaa	cagcttcaca	gcctacagtt	tgggaagggtg	gtagtgtatg	1440
ggatcttctt	ctggacacca	cgacaccagg	ccctgcccgtg	gaacagcttc	agcagctaga	1500
gaaggccaaa	gctgcaaaagc	tagagcaaga	gagaagagag	gcagaaatga	gggcaaaacg	1560
ggaagaggaa	gagcgaaaga	ggcaggaaga	actccgaaga	caacaggagg	aaattcttcg	1620
gcgacagcag	gaagaagaaa	ggaaaaggcg	agaggaaaga	gaacttgccc	gaaggaaaca	1680
ggaagaggct	ctgctgcgcc	agcgggagca	agaaaattgca	ttaaggcgac	agcgagaaga	1740
ggaagaaaaga	cagcagcaag	aagaagctct	tagaagactg	gaagagagga	gaagagaaga	1800
ggaagaaagg	cggaagcagg	aagaattgtt	acgcaaacag	gaagaggagg	ctgcaaaatg	1860
ggcccgggaa	gaagaagaag	cccagcgtcg	attagaggag	aaccggctgc	ggatggaaga	1920
ggaggcagcc	agactccggc	atgagggaaga	agaacgggaag	agaaaaggagc	tggaggtcca	1980
gcggcagaag	gagttaatgc	gccagaggca	gcagcagcaa	gaggctctcc	ggaggttgca	2040
gcagcagcag	cagcaacaac	agctggcgca	gatgaagctt	ccttcttctt	caacgtgggg	2100
ccagcagtc	aatacaacag	catgtcagtc	ccaggccacg	ctgtcgttgg	ctgaaatcca	2160
aaaactagag	gaagaacgag	aacggcagct	tgcgagaagag	caaaggcgcc	agcagagggga	2220
gttgatgaaa	gctcttcagc	agcagcagca	acagcaacag	cagaaactct	caggttgggg	2280
gaatgtcagc	aaaccttcag	gtaccacgaa	atctcttctg	gagatccagc	aggaagaggc	2340
caggcaaatg	caaaagcagc	agcagcagca	gcagcaacac	cagcaaccaa	acagagctcg	2400
taacaatacg	cattccaacc	tgcacaccag	cattgggaat	tctgtttggg	gctctataaa	2460
tactggctct	cctaaccagt	gggcatctga	cctagtcagt	agratcttga	gtaatgctga	2520
cactaaaaac	tccaacatgg	gattctggga	tgtgtagtg	aaagagggtg	gacctaggaa	2580
ttcaacaaat	aaaaataaaa	acaacgcag	tctcagtaaa	tctgtagggtg	tgtctaaccg	2640
gcagaataag	aaagtagaag	aagaagaaaa	gttgctgaag	ctcttttcagg	gagtaataaa	2700
agcccaagat	ggattttacgc	agtgggtgtga	acagatgctt	catgccctta	atacggcaaa	2760
taacttggat	gttccacatc	ttgtttcttt	cctgaaagaa	gtagaatctc	cttatgaggt	2820
ccatgattat	atcaggggct	atcttaggaga	tacttctgag	gccaaggagt	ttgccaagca	2880
gttctcttgag	cgccgtgcca	aacagaaaagc	caaccagcag	cgtcagcagc	agcagctgcc	2940
acagcagcag	cagcagcagc	cgccacagca	gccgccacag	cagccacaac	agcaggactc	3000
tgtgtggggg	atgaaccaca	gtacactcca	ttcagtattt	cagaccaatc	aaagcaacaa	3060
ccaacaatcc	aatttttgagg	ctgtgcagag	tggcaagaag	aagaaaaagc	agaagatggt	3120
ccgagcagat	cccagtttat	taggattttc	agtcaatgca	tcacggagc	gactcaacat	3180
gggtgaaatc	gagacgttgg	atgactactc	agcacctgcc	agtggactgg	ccatccctct	3240
cctgtctgcc	gactatggag	tctccacctt	tggacacaac	acttactcac	catttactct	3300
ttatcactct	gcaacaaatc	acagaaccga	tcactctcag	ctttttcttc	tggccctttg	3360
tgtccaagat	tctttaatcc	atctttgttg	gtgaacatct	cagactatag	ataagtggac	3420
tggaccctgt	gtcttggggg	tggcagttgg	gattactccc	caacaaggct	gatttttagc	3480
agcatgtgtt	cactgtgctg	tgatttcac	tactgtctcc	cagaaaagtg	gttgggatcg	3540
gccattagca	gcttgctttc	tcttgctact	ttttttcttc	tattttgttt	tttcttcttc	3600
tttttcccc	catcagggca	aatggtctaa	ctggtgcaat	catgaagaga	gttaatgggt	3660
aacagacatt	ggccaataac	aaaacacccc	atggactgtg	actcgagtat	ccaacaggca	3720
gtcagagctc	tcccgtctcg	aaagtgtcat	tgccactgct	aactttggga	ttgcatcaga	3780
gaggccctga	gtgggggtga	gatgaggttg	gtttgggttg	atgttacaca	ctcctcacct	3840
gttctttctg	agtgtccctt	ctctgaaagg	atcttatgtt	ttcttcgtta	gatagtgact	3900
tctgagcaag	ctgatctccc	ctggcatgct	ccaacctgat	tggacaaagg	aagctctatg	3960
gcctgggaga	gagactattc	ttaatttttc	tttcttacaa	aaactgattt	ttcccataaa	4020
tatttttact	tcagaggact	aggaccattt	tgttttgggc	ccttctgctg	aaaatttgct	4080
tctgtttaaga	ggcagctaga	atctttacca	tatgtatgaa	tttgtataat	ttcatttttg	4140
gatagggata	aacttttgct	tctgataaaa	gcctggaatt	tcactctggtc	ctcagagcat	4200
tgcgtgtgtg	tcttgctgta	gcccggaaaa	ggttttgtgt	aaagattctg	ggatggcaag	4260
ttgtttgcct	ttcttgaaaa	gagaacatac	agaacctgtc	catcttttaag	accttcatcc	4320
atggaatcta	ctatacagga	ggatgcagtg	ggctggaggg	gatgggagaa	aatgggagca	4380
ggaagcctgg	cctggcttct	ggatcatggc	tcctaaaacc	ttaaacttca	agtagaaatg	4440
tactcaagcc	ctattttataa	acaaataactt	ttcctgcctc	caccaaacc	ctacagaaca	4500
tcacctggaa	ttgccactca	cactgggttg	gagtcattgg	gcagctgtgc	ctgtgcgaga	4560
gggtgctgtg	tctgggcagc	ccctggaaaa	gcacctttgc	tgcctgtcat	tgttgccctga	4620
agaaggctgg	agttgctctg	agagcagttt	gggtttggag	tattatattt	ggcttctatt	4680
tttattattt	tggatcacca	ttctccctat	cccttcttgc	ctccctccct	tctaaacatg	4740
tgtataaact	atacagagac	tgctacaaaa	ttgtatatag	tttttggatc	aaatagcatt	4800
aggggagagg	aaaccattaa	aagtgggggc	tcctactctc	ccttgccttg	taaattccaa	4860
agttgggggt	gggttaagg	gatagttaaa	tcttttaciaa	aacttttaggc	tcctcgggaa	4920
cttttgccag	tgtggaggaa	aataaaaaag	aacttaaat			4959

<211> 5676
<212> DNA
<213> Homo sapiens

<400> 266

ggatccttga	gggcactggt	gagactttca	ggtgaggtct	tagcagatga	aagcggctgg	60
ctgtggcccc	cgccagtagt	gctttctgct	ccgcactcgc	cgtgagccag	gtgtgcaacc	120
ggatttgggg	cgagggtcgc	gctggctacc	tcgcatgcgc	agagccggaa	gcccgtgac	180
cggactacag	ctcccagaag	agccttgtgg	aggccgcaga	cgcgaaagccg	ctggcgccat	240
cttgaaatct	gatcctccat	ccccgaggct	ttgcgtctgc	gcggccggcc	gctgctgctc	300
cgggagccca	gtctgctaaa	aggggaggac	ggtgaggacg	cggcggctgg	cgaggagagac	360
agctggggag	agacatggca	gggtcggagc	gcggcctgcg	cctctgtcac	tcagcatcct	420
cttaggcgtt	tccacgcccc	ccccctgccc	gagggggcggg	gctgacggct	ctggtaaccg	480
gagtcggcgc	gcggggcagg	ggcgcgcccc	tgacagagtgg	ggacccccact	gggctgtgcc	540
atgctgacct	gagaccaccg	aggcggggaga	cagagcgcg	cgaagagcca	ttgagtggtc	600
accagtagc	cgccgcccgc	gcccgcctcg	gaagcttgcc	acccgctagg	aggggaagatg	660
aaggagattt	gcaggatctg	tgcccagagag	ctgtgtggaa	accagcggcg	ctggatcttc	720
cacacggcgt	ccaagctcaa	tctccagggt	ctgctttcgc	acgtcttggg	caaggatgtc	780
ccccgcgatg	gcaaagccga	gttcgcttgc	agcaagtgtg	ctttcatgct	tgatcgaatc	840
tatcgattcg	acacagttat	tgcccggatt	gaagcgcttt	ctattgagcg	cttgcaaaaag	900
ctgctactgg	agaaggatcg	cctcaagttc	tgcatgtcca	gtatgtatcg	gaagaataac	960
gatgactctg	gcgcggagat	caaggcgggg	aatgggacgg	ttgacatgtc	cgctctaccc	1020
gatgcgagat	actctgcact	gctccaggag	gacttcgcct	attcagggtt	tgagtgtctg	1080
gtggagaatg	aggatcagat	ccaggagcca	cacagctgcc	atgggttcaga	aggccctgga	1140
aaaccgacct	ggagatgccg	tggttgtgcc	gctttgcggg	ttgctgattc	tgactatgaa	1200
gccatttcta	aggtacctcg	aaaggtggcc	agaagtatct	cctgcggccc	ttctagcagg	1260
tggtcgacca	gcatttgcac	tgaagaacca	gcgttgtctg	aggttggggc	acccgactta	1320
gcaagcacia	aggtaccccc	agatggagaa	agcattggagg	aagagacgcc	tggttccctc	1380
gtggaatctt	tggatgcaag	cgccagggct	agccctccac	aacagaaaga	tgaggagact	1440
gagagaagtg	caaaggaact	tggaaagtgt	gactgttgtt	cagatgatca	ggctccgcag	1500
catgggtgta	atcacaagct	ggaattagct	cttagcatga	ttaaaggctc	tgattataag	1560
cccattccaga	gcccccgagg	gagcaggctt	ccgattccag	tgaaatccag	cctacctgga	1620
gccaaagcct	gcccctagcat	gacagatgga	gttagttccg	gtttccttaa	caggctcttg	1680
aaaccctctt	acaagacacc	tgtaggttat	cccttgaggc	tttcagacct	gcaggagctg	1740
tgggatgata	tctgtgaaga	ttatttgcgc	ctccgggtcc	agcccatgac	tgaagagttg	1800
ctgaaacaac	aaaagctgaa	ttcacatgag	accactataa	ctcagcagtc	tgtatctgat	1860
tcccacttgg	cagaactcca	ggaaaaaatc	cagcaaacag	aggccaccaa	caagattctt	1920
caagagaaac	ttaatgaaat	gagctatgaa	ctaaagtgtg	ctcaggagtc	gtctcaaaag	1980
caagatggta	caattcagaa	cctcaaggaa	actctgaaaa	gcagggaacg	tgagactgag	2040
gagttgtacc	aggttaattga	aggtcaaaat	gacacaatgg	caaagcttcg	agaaatgctg	2100
caccaaagcc	agcttggaca	acttcacagc	tcagagggta	cttctccagc	tcagcaacag	2160
gtagctctgc	ttgatcttca	gagtgcctta	ttctgcagcc	aacttgaaat	acagaagctc	2220
cagaggggtg	tacgacagaa	agagcgccaa	ctggctgatg	ccaaacaatg	tgtgcaattt	2280
gtagaggctg	cagcacacga	gagtgaacag	cagaaagagg	cttcttggaa	acataaccag	2340
gaattgcgaa	aagccttgca	gcagctacaa	gaagaattgc	agaataagag	ccaacagctt	2400
cgtgcctggg	aggctgaaaa	atacaatgag	attcgaaacc	aggaacaaaa	catccagcac	2460
ctaaaccata	gtctgagtca	caaggagcag	ttgcttcagg	aatttcggga	gctcctacag	2520
tatcgagata	actcagacaa	aacccttgaa	gcaaatgaaa	tggtgcttga	gaaacttcgc	2580
cagcgaatac	atgataaagc	tggtgctctg	gagcgggcta	tagatgaaaa	attctctgct	2640
ctagaagaga	aagaaaaaga	actgcgcacc	cttcgtcttg	ctgtgagaga	gcgagatcat	2700
gacttagaga	gactgcgcga	tgctctctcc	tccaatgaag	ctactatgca	aagtatggag	2760
agtctcctga	gggcccagg	cctggaagtg	gaacagttat	ctactacctg	tcaaaacctc	2820
cagtggctga	aagaagaaat	ggaaaacaaa	tttagccgtt	ggcagaagga	acaagagagt	2880
atcattcagc	agttacagac	gtctcttcat	gataggaaca	aagaagtggg	ggatcttagt	2940
gcaacactgc	tctgcaaaact	tggaaccagg	cagagtggag	tagcagagga	gctgtgccag	3000
cgtctacagc	gaaaggaaaag	gatgctgcag	gaccttctaa	gtgatcgaaa	taaacaaagt	3060
ctggaaacatg	aaatggagat	tcaaggcctg	cttcagctctg	tgagcaccag	ggagcaggaa	3120
agccaagctg	ctgcagagaa	gttgggtgcaa	gccttaaatg	aaagaaattc	agaattacag	3180
gccctgcgcc	aatattttagg	agggagagac	tccttgatgt	cccaagcacc	catctctaac	3240
caacaagctg	aagttacccc	cactggccgt	cttggaatac	agactgatca	aggttcaatg	3300
cagatacctt	ccagagatga	tagcacttca	ttgactggca	aagaggatgt	cagcataacc	3360
agatccacat	taggacagtt	ggacacagtt	gcagggtcgg	aaaaagaact	gagtaatgcc	3420
aaagaggaa	ttgaactcat	ggctaaaaaa	gaaagagaaa	gtcagatgga	actttctgct	3480
ctacagtcca	tgatggctgt	gcaggaagaa	gagctgcagg	tgagggtcgc	tgatatggag	3540

tctctgacca	ggaacataca	gattaaagaa	gatctcataa	aggacctgca	aatgcaactg	3600
gttgatcctg	aagacatacc	agctatggaa	cgccctgaccc	aggaagtctt	acttcttcgg	3660
gaaaaagtgt	cttcagtaga	atcccagggt	caagaaattt	caggaaaaccg	aagacaacag	3720
ttgctgtctga	tgctagaagg	actagtagat	gaacggagtc	ggctcaatga	ggccttacia	3780
gcagagagac	agctctatag	cagtctgggt	aagttccatg	cccatccaga	gagctctgag	3840
agagaccgaa	ctctgcaggt	ggaactggaa	ggggctcagg	tgttacgcag	tcggctagaa	3900
gaagtctctg	gaagaagctt	ggagcgctta	aacaggctgg	agaccctggc	cgccattgga	3960
ggtgcagctg	caggggatga	caccgaagat	acaagcactg	agttcactga	cagtattgag	4020
gaggaggctg	cacaccatag	tcaccagcaa	ctatagcttc	agaagcattt	ttacttgcaa	4080
gacgatggac	acattcccct	tgggcttttt	gtaactgaaa	cgcaccacag	aagacagggg	4140
gtcatcgaag	ggctgctcgg	ggaggtggca	gggaggagga	cctgcttggg	aagaaactcc	4200
aagaagattg	gaatgcttcc	aaagcaagaa	tctttctcag	tgaaatctca	ttatacaaaq	4260
agaaccttat	gcaacctgac	aaaccactga	ggctatgggt	actcagtgat	cagcagatgg	4320
tacttcaaca	gcaatcccct	gtcaaacctc	agaacttgag	gctgaaacat	tgcttccacc	4380
caccatcagt	gaagatgtaa	ctagcatggt	acaagagtga	ataatctgga	cttcagagat	4440
taagtcacca	atagtgatct	cacaagcact	caccggaact	cctataatgt	ctccactttg	4500
tccatgocat	ttagcaatct	catctcctaa	atggactgtg	cctatgattc	ttaaggagaa	4560
agtgaatcat	tggtagatat	cctgcacaag	cagctggact	ttccagtaat	agctttcttg	4620
gggtctattag	gaaaattaaa	caagaaatga	ggctttctgg	gtctgcctgt	atgtcttctg	4680
cataagacaa	agaagagaca	tcgaatcaac	caataagaag	agcccaaata	agcatcctca	4740
aatcttttgg	gatttgacac	ttggggacat	gagtagttgt	ctgggatatac	tcataattctc	4800
aacagtttct	ttgtagtagt	aggatcacct	tcttataata	ggatcacctt	cttggttgcta	4860
tagctgtacc	cgaccttccc	ttctcccttg	atgctcttga	tgagctccac	ttttcccttt	4920
gcttgaacag	cttctcctga	gtcctcctta	ccgatgggtg	tgactttaat	tatatatactc	4980
tctgtccctc	cagacagatc	cctctgtcct	cactctctga	tttcattgag	gatcttgggt	5040
gagagagagg	gacctgcagg	atgaacaaat	gtctactcta	agacagctag	attgggaggt	5100
tggtgtgtca	ctgatgggtt	taatgactgt	gggacaggat	taacttcaga	ataaatgaac	5160
aggagacaca	gatataagaa	aagtcttctga	ttgatattgt	ctgaagtact	cctgggtattg	5220
caagtcattt	gctctaattc	tcaatttgtat	gcaaaactgat	ttgtaaaatt	gcttcttcag	5280
ccttcttttc	tgtagcctag	catggagaat	ctgaccagac	cccattttga	gaaggtcagc	5340
ctacactgga	atgaactttt	tacattaggg	catttgattt	tccctcacaa	tacttgccac	5400
attacttggc	ataggagaga	tgcttagtgt	aattataagt	taacaagcct	ttggatcagg	5460
gcttgactca	tgatagacaa	agtatatgct	tgctggatgg	aagaatctct	tgggagagca	5520
ccatttttct	ttccatcacc	tttccctgaa	aatatatctt	cagctttggg	taggaggaat	5580
cttgggtgat	gaaatcattg	caaatttact	tcattctttc	tggagtttga	agttgtgact	5640
ctcctgctac	caattaaata	aagcttactt	tgccat			5676

<210> 267
 <211> 2483
 <212> DNA
 <213> Homo sapiens

<400> 267						
tggagtttga	ctattctgag	gacaagagta	gttggggacaa	ccagcaggaa	aacccccctc	60
ctacacaaaa	gataggcaaa	aagccagttg	ccaaaatgcc	cctgaggagg	ccaaagatga	120
aaaagacacc	cgagaaactt	gacaacactc	ctgcctcacc	tcccagatcc	cctgctgaac	180
ccaatgacat	ccccattgct	aaaggtactt	acacctttga	tattgacaag	tgggatgacc	240
ccaattttta	ccctttttct	tcacacctca	aaatgcagga	gtctcccaaa	ctgccccaac	300
aatcatacaa	ctttgaccca	gacacctgtg	atgagtccgt	tgacctcttt	aagacatcct	360
ctaagacccc	cagctcacct	tctaaaatccc	cagcctcctt	tgagatccca	gccagtgcta	420
tgggaagccaa	tggagtggac	ggggatgggg	taaacaaagc	cgccaagaag	aagaagacgc	480
ccctaaagac	tgacacattt	agggtgaaaa	agtcgcaaaa	acggtctcct	ctctctgac	540
caccttccca	ggacccacc	ccagctgcta	caccagaaac	accaccagt	atctctgcgg	600
tggtccacgc	cacagatgag	gaaaagctgg	cggtcaccaa	ccagaagtgg	acgtgcatga	660
cagtggacct	agaggctgac	aaacaggact	acccgcagcc	ctcggacctg	tccacctttg	720
taaacagagac	caaatctcagt	tcacccactg	aggagttgga	ttacagaaac	tcctatgaaa	780
ttgaatatat	ggagaaaatt	ggctcctcct	tacctcagga	cgacgatgcc	ccgaagaagc	840
aggccttgta	ccttatgttt	gacacttctc	aggagagccc	tgtcaagtca	tctcccgctc	900
gcatgtcaga	gtccccgacg	ccgtgttcag	ggtcaagttt	tgaagagact	gaagcccttg	960
tgaacactgc	tgcgaaaaaac	cagcatcctg	tcccacgagg	actggccctt	aaccaagagt	1020
cacctttgca	ggtgccagag	aaatcctccc	agaaggagct	ggaggccatg	ggtttgggca	1080
ccccttcaga	agcgattgaa	attacagctc	ccgagggctc	ctttgcctct	gctgacgccc	1140
tcctcagcag	gctagctcac	cccgtctctc	tctgtgtgtg	acttgactat	ctggagcccc	1200
acttagcaga	aaagaacccc	ccactattcg	ctcagaaact	ccagagagag	gctgttcacc	1260

caacagacgt	ctccatctcc	aaaacagcct	tgtactcccc	catcgggacc	gctgaggtgg	1320
agaaacctgc	aggccttctg	ttccagcagc	ccgacctgga	ctctgccctc	cagatcgcca	1380
gagcagagat	cataaccaag	gagagagagg	tctcagaatg	gaaagataaa	tatgaagaaa	1440
gcaggcggga	agtgatggaa	atgaggaaaa	tagtggccga	gtatgagaag	accatcgctc	1500
agatgataga	ggacgaacag	agagagaagt	cagtctccca	ccagacgggtg	cagcagctgg	1560
ttctggagaa	ggagcaagcc	ctggccgacc	tgaactccgt	ggagaagtct	ctggccgacc	1620
tcttcagaag	atatgagaag	atgaaggagg	tcctagaagg	cttccgcaag	aatgaagagg	1680
tgttgaagag	atgtgcgag	gagtacctgt	cccgsgtgaa	gaaggaggag	cagaggtacc	1740
aggccctgaa	ggtgcacgag	gaggagaaac	tggacagggc	caatgctgag	attgctcagg	1800
ttcgaggcaa	ggcccagcag	gagcaagccg	cccaccaggc	cagcctgcgg	aaggagcagc	1860
tgcgagtggg	cgccctggaa	aggacgctgg	agcagaagaa	taaagaaata	gaagaactca	1920
ccaagatttg	tgacgaactg	attgccaaaa	tggggaaaaag	ctaactctga	accgaatgtt	1980
ttggacttaa	ctgttgccgg	aatatgaccg	tcggcacact	gctgttcctc	cagttccatg	2040
gacaggttct	gttttcactt	tttctgtatg	actactgtat	ttcctttcta	aataaaattg	2100
atgtgattgt	atgcagtact	aaggagacta	tcagaatttc	ttgctatttg	tttgcatattt	2160
cctagtataa	ttcatagcaa	gttgacctca	gagttcctgt	atcagggaga	ttgtctgatt	2220
ctctaataaa	agacacattg	ctgaccttgg	ccttgccctt	tgtacacaag	ttcccagggt	2280
gagcagcttt	tggattttaat	atgaacatgt	acagcgtgca	tagggacctct	tgctttaaagg	2340
agtgtaaaact	tgatctgcat	ttgctgattt	gttttttaaaa	aaacaagaaa	tgcatgtttc	2400
aaataaaaatt	ctctattgta	aataaaaattt	tttcttttggg	tcttgaaaaa	aaaaaaaaaaa	2460
aaaaaaaaaaaa	aaaaaaaaaaaa	aaa				2483

<210> 268
 <211> 4143
 <212> DNA
 <213> Homo sapiens

<400> 268						
ggctgatgac	gactgggtggc	caatgcagat	actaatgaag	tgccctaatac	aaattgtgag	60
acagatgttt	cagcgtttgt	gtatccatgt	gattcagagg	ctgagacctg	tgcatgctca	120
tctctatttg	cagccaggaa	tggagatgg	gtcagatgat	atggatacct	cagtagaaga	180
tattgggtgg	cgttcatgtg	tcactcgctt	tgtgagaacc	ctgttattaa	ttatggaaca	240
tggtgtaaaa	cctcacagta	aacatcctac	agagtatttt	gccttccttt	acgaatttgc	300
aaaaatgggt	gaagaagaga	gccaattttt	gctttcattg	caagctatat	ctacaatggt	360
acattttttac	atgggaacaa	aaggacctga	aaatcctcaa	ggtgaagtgt	tatcagagga	420
agaaggggaa	gaagaagagg	aggaagaaga	tatcctctct	ctggcagaag	aaaaatacac	480
gccagctgcc	cttgaanaaa	tgatagcttt	agtgtgctct	ttgggtgaac	agtctcgatc	540
agaaaggcat	ttgacattat	cacagactga	catggcgaca	ttaacaggag	gaaagggatt	600
ttccctcctg	tttcaacata	ttcgtgatgg	catcaatata	agacaaaact	gtaatctgat	660
tttcagcttg	tgtcgataca	ataatcgact	tgcagaacat	attgtatcta	tgcttttcac	720
atcaatagca	aagttgactc	ctgaggcagc	caatcctttc	tttaagtgtg	tgactatgct	780
aatggagtgt	gctgggtggac	ctccagggaat	gcctcccttt	gcattctata	ttctgcagag	840
gatattgggag	gtgattgaaat	acaatccttc	tcagtgtcta	gattgggttg	cagtgccagc	900
accccgaaat	aaactggcac	acagctgggt	cttacagaat	atggaaaact	gggtcgagcg	960
gtttctttttg	gctcacaatt	atcctagagt	gaggacttct	gcagcttata	ttctgggtgtc	1020
ccttatacca	agcaattcat	tcctgcagat	gttccggtca	acaaggctct	tgccacatccc	1080
aaccogtgac	cttccactca	gtccagacac	aacagtagtc	ctacatcagg	tctacaacgt	1140
gctccttggt	ttgctctcaa	gagccaaaact	ttatgttgat	gctgctgttc	atggcactac	1200
aaagcttagtg	ccttatttta	gctttatgac	ttactgttta	atttccaaaa	ctgagaagct	1260
gatgtttttc	acataatttca	tggatttgtg	gaaccttttc	cagcctaatac	ttcttgagcc	1320
agcaatagct	acaaatcaca	ataaacaggc	tttgctttca	ttttggtaca	atgtctgtgc	1380
tgactgtcca	gagaatatcc	gccttattgt	tcagaaccca	gtggtaacca	agaacattgc	1440
cttcaattac	atccttgctg	accatgatga	tcaggatgtg	gtgcttttta	accgtgggat	1500
gctgccagcg	tactatggca	ttctgaggct	ctgctgtgag	cagtctcctg	cattcacacg	1560
acaactggct	tctcaccaga	acatccagtg	ggcctttaag	aatcttacac	cacatgccag	1620
ccaataccct	ggagcagtag	aagaactggt	taacctgatg	cagctgttta	tagctcagag	1680
gccagatatg	agagaagaag	aattagaaga	tattaaacag	ttcaagaaaa	caaccataag	1740
ttgttactta	cgttgcttag	atggccgctc	gtctggact	actttaataa	gtgccttcag	1800
aatactatta	gaatctgatg	aagacagact	tcttgttgta	tttaatcgag	gattgattct	1860
aatgacagag	tctttcaaca	ctttgcacat	gatgtatcac	gaagctacag	cttgccatgt	1920
gactggagat	ttagtagaac	ttctgtcaat	atttctttcg	gttttgaggt	ctacacgccc	1980
ttatcttcag	agaaaagact	tgaaaacaagc	attaatccag	tggcaggagc	gaattgaatt	2040
tgcccatataa	ctgttaactc	ttcttaattc	ctatagctct	ccagaactta	gaaatgcctg	2100
tatagatgtc	ctcaaggaaac	ttgtactttt	gagtcctccat	gattttcttc	atactctggt	2160

tcggacgact	ctgacctaga	ggatgtgctt	cagggtcccaa	acgggttgggc	caatccgggg	1440
aagaggggga	aaaccggata	aggggtttcc	ccttttgggg	atcacctctc	tgtatcccc	1500
acccactatc	ccatttgccc	tcctcctcag	ctagggccac	gcggacccac	attgcacttc	1560
tggggggtga	ccgacttcgt	acacggggtt	aaagtttatt	ttttt		1605

<210> 270
 <211> 2488
 <212> DNA
 <213> Homo sapiens

<400> 270

ggccgggaaca	ggcgtttaga	gaaaatggca	gacgatattg	atattgaagc	aatgcttgag	60
gctccttaca	agaaggatga	gaacaagtgt	agcagtgcca	acggccatga	agaacgtagc	120
aaaaagagga	aaaaagcaa	gagcagaagt	cgtagtcatg	aacgaaagag	aagcaaaagt	180
aagggaacgga	agcgaagtag	agacagagaa	aggaaaaaga	gcaaaaagccg	tgaagaaaaag	240
cgaagtagaa	gcaaagagag	gcgacggagc	cgctcaagaa	gtcgagatcg	aagattttaga	300
ggccgctaca	gaagtcctta	ctccggacca	aaatttaaca	gtgccatccg	aggaaagatt	360
gggttgccctc	atagcatcaa	attaagcaga	cgacgttccc	gaagcaaaaag	tccattcaga	420
aaagacaaga	gccctgtgag	agaacctatt	gataatttaa	ctcctgagga	aagagatgca	480
aggacagtct	tctgtatgca	gctggcgcca	agaattcgac	caagggattt	ggaagagttt	540
ttctctacag	taggaaaggt	tcgagatgtg	aggatgattt	ctgacagaaa	ttcaagacgt	600
tccaaaggaa	ttgcttatgt	ggagttcgtc	gatgttagct	cagtgcctct	agcaatagga	660
ttaactggcc	aacgagtttt	aggcgtgcca	atcatagtac	aggcatcaca	ggcagaaaaa	720
aacagagctg	cagcaatggc	aaacaattta	caaaaaggga	gtgctggacc	tatgaggctt	780
tatgtgggct	cattacactt	caacataact	gaagatatgc	ttcgtgggat	ctttgagcct	840
tttggaagaa	ttgaaagtat	ccagctgatg	atggacagtg	aaactggtcg	atccaaggga	900
tatggattta	ttacattttc	tgactcagaa	tgtgccaaaa	aggctttgga	acaacttaat	960
ggatttgaac	tagcaggaag	accaatgaaa	gttggctcatg	ttactgaacg	tactgatgct	1020
tcgagtgtta	gttcattttt	ggacagtgat	gaactggaaa	ggactggaat	tgatttggga	1080
acaactggtc	gtcttcagtt	aatggcaaga	cttgacagag	gtacaggttt	gcagattccg	1140
ccagcagcac	agcaagctct	acagatgagt	ggctcttttg	catttgggtg	tgtggcagaa	1200
ttctcttttg	ttatagattt	gcaaacaaga	ctttccagc	agactgaagc	ttcagcttta	1260
gctgcagctg	cctctgttca	gccacttgca	acacaatgtt	tccaactctc	taacatgttt	1320
aacctcaca	cagaagaaga	agttggatgg	gataccgaga	ttaaggatga	tgtgattgaa	1380
gaatgtaata	aacatggagg	agttattcat	atttatgttg	acaaaaattc	agctcagggc	1440
aatgtgtatg	tgaagtgcgc	atcaattgct	gcagctattg	ctgctgtcaa	tgcattgcat	1500
ggcaggtggg	ttgctggtaa	aatgataaca	gcagcatatg	tacctcttcc	aacttaccac	1560
aacctgtttc	ctgattctat	gacagcaaca	cagctactgg	ttccaagtag	acgatgaagg	1620
aagatatagt	cccttatgta	tatagctttt	tttctttctt	gagaattcat	cttgagttat	1680
cttttattta	gataaaaaa	aagaggcaag	gatctactgt	catttgtatg	caatttctctg	1740
ttaccttgaa	aaaataaaaa	tgtaaacagg	aatgcagtgt	gctcattctc	cctaaatagt	1800
aaatcccact	gtatacaaaa	ctgttctctt	gttctgcctt	ttaaaatgtt	catgtagaaa	1860
attaatgaac	tataggaata	gctctaggag	aacaaatgtg	ctttctgtaa	aaaggcagac	1920
cagggatgta	atgtttttta	tgtttcagaa	gcctaacttt	ttacacagtg	gttacatttc	1980
acatttcact	aatgttgata	tttggtgat	ggttgagcag	tttctgaaat	acacatttag	2040
tgtatggaaa	tacaagacag	ctaaagggct	gtttggttag	catctcatct	tgcattctga	2100
tcaattggca	agaaagggag	atttcaaaat	tatatctctt	gatggtatct	tttcaattaa	2160
tgtatctgta	aaagtttctt	tgtaaatact	atgtgttctg	gtgtgtctta	aaattccaaa	2220
caaaatgatc	cctgcatttc	ctgaagatgt	ttaaactgtg	gagtctggta	ggcaaagcag	2280
ctcgagaaa	aaataggaaa	tcagaaaata	ggttttgtct	ggttgcatat	aatctttgct	2340
ctttttaagc	tctgtgagct	ctgaaatata	tttttgggtt	acttcagtg	gtttgacaag	2400
acagcttgat	atttctatca	aacaaatgac	tttcatattg	caacaatctt	tgtaagaacc	2460
actcaataaa	aagtctctta	aaaaggcc				2488

<210> 271
 <211> 1769
 <212> DNA
 <213> Homo sapiens

<400> 271

gctttcaccc	attagcatta	cttacgtaga	taattcttta	tgcttagtta	ttatacatat	60
taatttttaa	ggtatacatt	taaattacac	aattgttcat	tgtgggttgt	atcccagaat	120
gtgttgtgtt	tttttaaaaga	tgcataatag	ctgaatgtat	gcatgacttt	gaaagaagtt	180
aaaatggtga	ttttttttca	cctcttgtac	attttaaaac	caggccaaat	ctatttgcca	240

tctacccgca	caccgcgcatc	cagtctcttgg	tgagcatcct	gcgcaccacg	gtccaccatg	1920
ccttcccggg	gggtcacagag	aaccgcgggta	acgagaagga	gttcatgaag	ggcaaccagc	1980
tcatcagcaa	caacatcaag	ttcaagaaat	ccagcatcct	caccgcgggt	ggcgagcagc	2040
gcaaaccggag	ccagtcctatg	aagtccctacc	catccagcga	gctacggaac	atgtgtgatg	2100
agcacatcgc	ctctgaggag	ccagccgaga	aggaggacct	cctgcagcag	atgctggaaa	2160
ggagatacac	tccctacccc	aacctatacc	ctgaccagtc	cccaagtga	gactggacca	2220
tggaggagcg	gttccgcccc	ctgaccttcc	acggcctgat	ccttcgggtcg	cagcttgtca	2280
ccctgcttgt	ccgaggagtt	tgttactctg	aaagccagtc	gagcgccagc	cagccgcgoc	2340
tctcctatgc	cgagatggcc	gaggactacc	cgcggtaccc	cgacatccac	gacctggacc	2400
tgacgctgct	caaccgcgc	atgatcgtgg	atgtcaccoc	atacatgaac	ccttcgcctt	2460
tcaccgtctc	gccccaacacc	cacgtctccc	aagtcttcaa	cctgttcaga	acgatgggoc	2520
tgcgccacct	gccccgtggg	aacgctgtgg	gagagatcgt	ggggatcctc	acacggcaca	2580
acctcaccta	tgaatttctg	caggcccgcc	tgaggcagca	ctaccagacc	atctgacagc	2640
ccagcccacc	ctctcctggt	gctgcctggg	gaggcaaatc	atgctcactc	cgccggggcac	2700
agctggctgg	ggctgttccg	gggcatggaa	gattcccagt	tacccactca	ctcagaaagc	2760
cgggagtcac	cggacacctt	gctggtcaga	ggccctgggg	gtggttttga	accatcagag	2820
cttggacttt	tctgacttcc	ccagcaagga	tcttcccact	tctgtctccc	tgtgttccca	2880
ccctccagtg	ttggcacagg	cccacccctg	gctccaccag	agccagaagc	agaggtagaa	2940
tcaggcgggc	cccgggctgc	actccgagca	gtgttccctg	ccatctttgc	tacttttcta	3000
gagaacccgg	ctgttgcctt	aaatgtgtga	gagggacttg	gccaaggcaa	aagctgggga	3060
gatgccagtg	acaacatata	gttcatgact	aggttttagga	attgggcact	gagaaaaattc	3120
tcaataatttc	agagagtctt	tcccttattt	gggactctta	acacggtatc	ctcgctagtt	3180
tgtttttaagg	gaaacactct	gctcctgggt	gtgagcagag	gctctgggtc	tgccctgtgg	3240
tttgactctc	cttagaacca	ccgcccacca	gaaacataaa	ggattaaaat	cacactaata	3300
acctctggat	gggtcaatctg	ataataggat	cagattttacg	tctaccctaa	ttcttaacat	3360
tgacgctttc	tctccatctg	cagattatct	ccagtctccc	agtaaacagt	ttctaccag	3420
atcctttttc	atttctctaa	gttttgcctt	ccgtcttccc	gatgaagcag	gcagagctca	3480
gaggtacttg	gcatcaccca	ccaaagttag	ctgaaagcag	ggcactcctg	gataaagcag	3540
cttcaactcaa	ctctggggaa	tgctaccatt	ttttttccaa	agtagaaagg	aagcacttct	3600
gagccagtg	ccactgaaag	gtatgtgcta	tgataaagca	gatggcctat	ttgaggaaga	3660
gggtgtctgc	ccttcacaaa	cacctctctc	tcccctgcac	tagctgtccc	aagctttacat	3720
acagaggccc	ttcaggaggc	cctcctgtgc	cgaggggagg	gtgcgtgggg	aagatgcttc	3780
ctgccagcac	gtgcctgaag	gtttcacatg	aagcatggga	agcgcaccct	gtcgttcagt	3840
gacgtcattc	ttctccaggc	tggcccgccc	cctctgacta	ggcaccctaa	gtgagcatct	3900
gggcattggg	cattcatgct	tatcttcccc	caccttctac	atggtatcag	tcccagcagg	3960
catccctggg	gcagacgtgc	tttgggtcaa	gatggccttc	atttacgtct	agtttttttt	4020
aaaaccgtgg	aggttgccca	cgggcctcgg	cacctggccc	ttggcagaca	gctctcaggc	4080
ccagccctgg	gcgacctcct	tggccaagtc	tgcccttcac	cctgggggtga	gcatcagtcc	4140
tggctctgct	gggtccagatc	ttgcgtcag	cacactctag	ggaataattc	cactccagag	4200
atggggctgc	ttcaaggctc	tttctagctg	attgtggccc	ctccattttc	cccattttct	4260
tatctccctg	accaaaattg	ctttgacttc	taaatgcttc	tgcttcccag	aatgcacctg	4320
acttatgaaa	tggggataat	actcccagga	aatagcgcag	gacatcacaa	ggaccacaaa	4380
ggcaattctt	atttaaatgt	tactatttgg	ccagctgctg	ctgtgtttta	tggcagtggt	4440
cagagcttga	tcacgttatt	tcttctcttt	attaagaagg	aagccaattg	tccaagtcag	4500
gagaatgggt	tgatcacctg	tcacagacac	tttgtcccc	ctccccgccc	cttccctggag	4560
ctggcagagc	taacgccccg	caggaggacc	ccggcctctc	gagggctgga	tcagcagccg	4620
cctgccccga	ggctgccccg	gtgaattgta	ttggaattca	tccctcgtgc	acatcctggt	4680
gtgtttaagt	caccagatat	tttgttccca	tcagtttagc	ccagagatag	acagtagaat	4740
gcaaataacct	ccctcccccta	aactgactgg	acggctgcca	aggaggcccc	aaaccagggc	4800
cccatgcaaa	ggcacgtggg	ttcctttttc	cctctctctg	catctgcgct	ttccagataa	4860
gccccaaagac	agcaacttct	ccactcatga	caaatoaact	gtgacctctg	ctccttccat	4920
ttctgtccat	tagaaaccag	ccttttcagc	atctcaccca	ttagcagccc	catcacccag	4980
tgatcagtcg	cctcagtaaa	gcagatctgt	ggatggggag	cctacgggtg	gtaagaagtg	5040
gtgttttgtg	tttcatctcc	agcttgggtg	tccatggccc	ctaggcgagg	tgatcagggg	5100
ctggggccaa	tgggcccccg	gccttggtct	tgggaccttg	tgctgaggga	tgatttgctc	5160
gtgaccttga	tttaacttaac	agttccagac	tgggaaggac	actttcagga	cccagtcac	5220
tgtatggcat	ttgtgatgca	gaattatgca	ctgacatgac	cctgggtgac	aggaaaagcct	5280
ttcgagaggc	ccaaggtggc	ctcgccagcc	ctgcagtatt	gatgtgcagt	attgcaccac	5340
agctctgcgg	accttggcca	ttgcccagct	cgcagcttcc	ttttttctgt	ttgcactggt	5400
tgtttgtatg	atgttagcta	attccactgt	gtatataaat	tgtatttttt	tttaatttgta	5460
aaatgctatt	tttatttgaa	cctttggaac	ttgggagttc	tcattgtaac	cctaacatgt	5520
gagaataaaa	tgtcttctgt	c				5541

<211> 5047
<212> DNA
<213> Homo sapiens

<400> 273

ccgttgctgt	cgccggttgc	gtcggggggcg	ctgtgcgctg	aggaaggcgc	gggagagccg	60
gagcagaaga	aggagggagg	gagccagccg	ctgcagccac	caccgccacc	atgtccctacc	120
aaggcaagaa	gaacatcccc	cggatcacga	gtgaccgtct	ccttatcaag	ggaggcagaa	180
tcgtcaatga	tgatcagtc	ttttatgctg	atatttacat	ggaagatggc	ttaataaaac	240
aaattggaga	caatctgatt	gttcctggag	gagtgaagac	cattgaagcc	aatgggaaga	300
tggtgatccc	tggaggcatc	gatgtccata	ctcacttcca	gatgccat	aagggaatga	360
ccacagtaga	tgacttcttc	caagggacaa	aggcggcctt	agcaggtggc	accaccatga	420
tcattggacca	tgtggtgcct	gagcctgagt	ccagcctgac	tgaggcctat	gagaaatgga	480
gagagtgggc	tgatgggaag	agttgctgtg	actatgccct	gcatgtggac	atcacccact	540
ggaatgacag	cgtcaagcag	gaagtgcaga	acctcatcaa	ggacaaaagg	gttaactcct	600
tcattggttta	tatggcttat	aaggatttgt	atcaagtatc	taacacagag	ctctatgaga	660
tcttcacctg	cctgggagag	ctggggggcca	ttgctcaagt	tcattgctgag	aatgggggata	720
tcattgcccc	ggagcaaaac	cgcattgttg	aaatggggat	aactgggcca	gaaggccatg	780
tactgagcag	gccagaagag	ctggaagctg	aggctgtgtt	ccgtgccatc	accattgcca	840
gccccaaacaa	ttgccctctc	tacgtcacaa	aggtcatgag	caagagtgoa	gotgacctca	900
tctcacaagc	caggaaaaaa	ggaaatgtag	tcttttggtga	gccccatcact	gccagcctcg	960
gcattagatgg	aaccattat	tggagcaaga	actgggcca	ggcggctgca	tttgtgacat	1020
ccccaccctt	gagccctgac	ccaactactc	cggactacat	caactccttg	ctggccagcg	1080
gggatctgca	gctatctggg	agtgccact	gcaccttcag	cactgcccag	aaagcaattg	1140
ggaaggacaa	cttcacagcc	attcctgagg	gcaccaatgg	tgtggaggag	cggatgtctg	1200
tcattctggga	caaggctgtg	gccacagggg	aaatggacga	aaaccagttc	gtggctgtga	1260
caagcacaaa	cgtctgccaag	atcttcaacc	tgtatccccg	caagggaaga	atatctgtgg	1320
gttctgacag	cgacctcgtc	atctgggata	cagatgctgt	gaagatcgtc	tctgccaaga	1380
accaccagtc	tgcggcagag	tacaacatct	ttgaagggat	ggagctgcgc	ggggctcctc	1440
tggttgctcat	ctgccagggg	aagatcatgc	tgggaagatgg	caacctgcac	gtgacccagg	1500
gggctggccg	cttcataccc	tgcagcccgt	tctccgacta	tgtctacaag	cgcattaaag	1560
cacggaggaa	gatggcagac	ctgcattggc	tcccaagggg	catgtacgat	gggcctgtgt	1620
ttgacctgac	caccaccccc	aaagggtggc	ccccgcagg	ctctgctcgg	ggctctccta	1680
ctcggccgaa	cccacctgtg	aggaatcttc	atcagtcggg	atttagcctg	tcaggcaccc	1740
aagtggatga	gggggttcgc	tcagccagca	agcgcacgt	ggcccccca	ggcggccgtt	1800
ctaatatcac	atctctgagt	taagcaagcc	ttcctcaaag	agaggggcag	aagcaagaag	1860
agattgtttt	gaagccaaaa	tggtacacgg	atatttaaga	aggaaagcga	atccaaacgg	1920
ttgtgatcta	aagaatcaat	aagcctcaag	ccttatgttt	ctccaatgtt	acgctcgctt	1980
gcctagcttt	acgaatattg	ctttgttttc	tgtttatgca	tagccttgat	ttgtttgact	2040
cccccccc	catttacatg	catgcaatca	gacaggccac	taaggtaaaa	gagttctgctc	2100
tatcatagt	ttgagagcgt	gtgtagtgt	gcattctatg	acaaggggac	agacaagctg	2160
ggagctcagg	gaaatgaaca	aaagggacgc	aggttatttg	gggtgagtg	gtgggtggg	2220
cctggagcaa	ggtggagggt	gcagaggggc	tggggtaggg	catgtaggag	ggaggtgggt	2280
gggtcaggtg	agtggaaagg	gtgttgtata	ttgtgttgat	gacgtacgtt	atttccatgg	2340
aagatagccg	ctgtggcagc	tgtcacatca	ccacagctcc	ctagggtctg	ccgagaaggc	2400
aggcagctct	tgggtttctg	tctttgtcac	gtccccata	agtaaatatt	gtttctttga	2460
acgtttatta	aaatgccaa	acccaacat	ttcttccacc	tgtttgattg	tgccagtgtt	2520
tgctcaggcc	tctttcttag	tgttgccttc	aaatccttct	ctttcctggg	ttgggaaggc	2580
caggcaggga	cagagcaaat	gacacttctc	ttcctcttgc	cctccctgcc	tcttttggtg	2640
tcttaaaagc	cagcagctga	gaacatagca	caggcccacg	tgggtgagggc	acccacagct	2700
taaagacgct	tctttctaaa	cacggcgagg	tcacctctca	ctcttctgtc	tttgcaaac	2760
gagaagagt	gcatgcttct	ggcatcccaa	gtcaggattt	tagctcagat	gaggcagaat	2820
gaagggcctc	tcttacaggc	agtttgtgtt	tgtttctctc	gatcctggca	catccatgat	2880
aaataggagt	ttttgaaagt	tggttttatt	aggtgttccc	taattttttac	cgtaataggt	2940
catctcagct	tatatgaaag	tcaagtgggg	aactgggaaa	gccccaaagt	gtcttgagca	3000
gagggagcac	attttgtgga	cctggttcca	cctttccatt	ccaaaccacc	tgtttccctc	3060
tccattagca	gaaactctgg	gggaactttg	tgtctcagtc	ctagaatctc	cccaagttag	3120
tggaaagtgc	atgatgcagt	cttccctcat	gggcacctga	aagaaattag	tgtgggtgct	3180
tcgatctacc	ttgtctgtca	gagttgaata	tctctttccc	tatcatgctg	cttctgaaaa	3240
ttcagttttg	gagcaagtc	tgtgagcaag	ataagaatct	atagaaccac	gatgctcatt	3300
ttcagaagaa	atatgttcaa	cctgggatca	gacttccatg	ctctggggaa	tccaagtggg	3360
agcacctgta	accctgtgta	ctaagtgcct	tgaagagaag	agcaggcctc	agacaccttt	3420
taattgctta	ggagaaaacca	ttgtctctga	ctgcagggtt	gaataagttg	aagaccagag	3480
aaaagtacac	actgggctac	aaaggaattt	ggagatagcc	aagggaacagg	atttccctta	3540

gcaagctacc	ttctgttcaa	atcatgaaaa	aagactat	cccccttagaa	tagggaagct	3600
tgctat	aaagctctt	agtgtttt	ttttaaggga	gatgtagtaa	aaggga	3660
gtagctctta	gtttacactt	caaagatgtg	ggggtctt	agagaactaa	gaataacagt	3720
tttatgtgca	gagagagttt	gccagatctg	aagcatatac	ctcattgact	aggctgttac	3780
tttgggatag	gttgacgtac	cagccacagc	cagcagatag	aggaaaagac	acacataaac	3840
tgcgtcttga	gcgtccactt	ctgcactctc	tgctctgctg	ttactcagcc	cctgagtctg	3900
actcatctct	gcacaacctc	tctgtgccat	gaagataagt	cttccatggc	caaatcggtc	3960
atccgcactg	cccttggggac	ttccgaagtg	aaccattcca	ccagaacctt	tgattctgca	4020
caagattttcc	ttgctctggg	aacaaccccc	aaatgccctt	gggaggaaca	acatgagctc	4080
aggaagcctc	tctttcttca	cttaccatta	ctaactctcc	aagcatagaa	atccctggga	4140
attgcgagaa	taactcccac	tattttaaaa	tttatattca	gatttgtttc	gtttcataag	4200
acacatcaaaa	caggcctata	caaaaaggtt	aggaaaagaa	aacaatggtg	agtcccggcc	4260
ctcttcgaat	tcactggcac	ctcatgcaag	tgtaggaagg	cacgctggat	cgtctatctg	4320
attccaaaagc	tgctctttgc	catctcatcc	cttggcctgc	cccccaaccc	tgaggatgcc	4380
cctgccatcc	ccccaacctc	ctcatattgc	ctctgaaccc	agatggcaat	ccatcccggg	4440
tctctctgag	ggccacgggc	ttgggttagtg	gaaaggggtg	ttgggaaatt	gttaaatcag	4500
ttacccgtag	tagagctatt	tcttgractt	ctaagttttc	tagaagtggg	aggattgtag	4560
tcaccttgaa	aatgggttta	cttcaaaatc	cctcagcctt	gttcttcacg	actgtctata	4620
ctgagagtgt	catgtttcca	caaagggctg	acacctgagc	ctggattttc	actcatccct	4680
gagaagccct	ttccagtagg	gtgggcaatt	cccaacttcc	ttgccacaag	cttcccaggc	4740
tttctccctc	ggaaaaactcc	agcttgagtc	ccagatacac	tcattgggctg	ccctgggcag	4800
ccagcattca	ttgtaagttc	cctctttgaa	aactgggtgtg	tggtgtgtca	gttctgtgtc	4860
tggtgggtat	ggacagacag	taattctcctg	tgatctgtgc	tagctgtgag	gcagctctgg	4920
aacgtgaaga	gctgtttggg	ttgaaccgtg	aacaaaactg	tgttttgagt	ttagctgaca	4980
ttaaagaaaa	aagttcatca	cgtgactgtt	aatgtaaacc	tggttattaa	aataaactatg	5040
aaattac						5047

<210> 274
 <211> 1231
 <212> DNA
 <213> Homo sapiens

<400> 274						
gacaagatgg	ccacaccggc	ggtaccagta	agtgtcctc	cggccacgcc	aacccccagtc	60
ccggcggcgg	ccccagcctc	agttccagcg	ccaacgccag	caccggctgc	ggctccgggt	120
cccgtgcggg	ctccagcctc	atcctcagac	cctgcccag	cagcggctgc	aactgcccgt	180
cctggccaga	ccccggcctc	agcgcaagct	ccagcgagga	ccccagcgcc	cgctctgcct	240
ggctcgtgct	ttccagggcc	cttccccggc	ggccgcgtgg	tcaggctgca	cccagtcatt	300
ttggcctcca	ttgtggacag	ctacgagaga	cgcaacgagg	gtgctgccc	agttatcggg	360
accctgttgg	gaactgtcga	caaacactca	gtggagggtca	ccaattgctt	ttcagtgcgg	420
cacaatgagt	cagaagatga	agtggctgtt	gacatggaat	ttgctaagaa	tatgtatgaa	480
ctgcataaaaa	aagttttctc	aaatgagctc	atcctgggct	ggtagcgtac	gggccatgac	540
atcacagagc	actctgtgct	gatccatgag	tactacagcc	gagaggcccc	caacccccatc	600
cacctcactg	tggacacaag	tctccagaac	ggccgcgatga	gcatacaagg	ctacgtcagc	660
actttaatgg	gagtcctctg	gaggaccatg	ggagtgtatg	tcacgcctct	gacagtga	720
tacgcgtact	acgacactga	acgcacatga	gttgacctga	tcataagagac	ctgcttttagc	780
cccaacagag	tgattggact	ctcaagtgac	ttgcagcaag	taggaggggc	atcagctcgc	840
atccaggatg	ccctgagtac	agtgttgcaa	tatgcagagg	atgtactgtc	tggaaagggtg	900
tcagctgaca	atactgtggg	ccgtctcctg	atgagcctgg	ttaaaccaagt	accgaaaata	960
gttcccgatg	actttgagac	catgctcaac	agcaacatca	atgacctttt	gatgggtgacc	1020
tacctggcca	acctcacaca	gtcacagatt	gcactcaatg	aaaaacttgt	aaacctgtga	1080
atggacccca	agcagtacac	ttgctgggtc	aggtattaac	cccaggactc	agaagtgaag	1140
gagaaatggg	ttttttgtgg	tcttgagtca	cactgagata	gtcagtttgt	tgtgactcta	1200
ataaacggag	cctacctttt	gtaaaaaaa	a			1231

<210> 275
 <211> 8368
 <212> DNA
 <213> Homo sapiens

<400> 275						
gcgatccggg	cgccaccccc	cggtcatcgg	tcaccgggtc	ctctcaggaa	cagcagcgca	60
acctctgctc	cctgcctcgc	ctcccgcgcg	cctaggtgcc	tgcgacttta	attaaagggc	120
cgccccctcg	ccgaggctgc	agcaccgccc	ccccggcttc	tcgcgcctca	aaatgagtag	180

ctcccactct	cggggcggggc	agagcgcagc	aggcgcgggt	cggggcggcg	gcgtcgacac	240
gcgggacgcc	gagatgccgg	ccaccgagaa	ggacctggcg	gaggacgcgc	cgtggaagaa	300
gatccagcag	aacactttca	cgcgctgggt	caacgagcac	ctgaagtgcg	tgagcaagcg	360
catcgccaac	ctgcagacgg	acctgagcga	cgggctgcgg	cttatcgcg	tgttggaggt	420
gctcagccag	aagaagatgc	accgcaagca	caaccagcgg	cccactttcc	gccccaatgca	480
gcttgagaac	gtgtcggtgg	cgctcgagtt	cctggaccgc	gagagcatca	aactggtgtc	540
catcgacagc	aaggccatcg	tggacgggaa	cctgaagctg	atcctggggc	tcatctggac	600
cctgatcctg	cactactcca	tctccatgcc	catgtgggac	gaggaggagg	atgaggaggc	660
caagaagcag	acccccaaag	agaggctcct	gggctggatc	cagaacaagc	tgccgcagct	720
gcccataccc	aacttcagcc	gggactggca	gagcggccgg	gcccctggcg	ccttgggtgga	780
cagctgtgcc	cggggcctgt	gtcctgactg	ggactcttgg	gacgccagca	agcccgttac	840
caatgcgcga	gaggccatgc	agcaggcgga	tgactggctg	ggcatcccc	aggtgatcac	900
ccccgaggag	attgtggacc	ccaacgtgga	cgagcactct	gtcatgacct	acctgtccca	960
gttccccaaag	gccaagctga	agccaggggc	tcccttgccg	cccaaactga	accogaagaa	1020
agcccgtgcc	tacggggccag	gcacgcagcc	cacaggcaac	atggtgaaga	agcgggcaga	1080
gttccactgtg	gagaccagaa	gtgctggcca	gggagagggtg	ctggtgtacg	tggaggacc	1140
ggccggacac	caggaggagg	caaaagtgc	cgccaataac	gacaagaacc	gcacctctc	1200
cgtctggtac	gtccccgagg	tgacggggac	tcataagggtt	actgtgctct	ttgctggcca	1260
gcacatcgcc	aagagcccc	tcgaggtgta	cgtggataag	tcacagggtg	acgccagcaa	1320
agtgcagacc	caagggtccc	gcctggagcc	cagtggcaac	atcgccaaca	agaccacct	1380
ctttgagatc	tttacggcag	gagctggcac	ggcgagggtc	gaggttgtga	tccaggaccc	1440
catgggacag	aagggcagcg	tagagcctca	ctgggaggcc	cggggcgaca	gcacataccg	1500
ctgcagctac	cagccccacca	tggaggcggt	ccacaccgtg	cacgtcacgt	ttgccggcgt	1560
gcccataccc	cgcagcccc	acactgtcac	tgttggccaa	gcctgttaac	cgagtgcctg	1620
ccggggcggtt	ggccgggggc	tccagcccaa	gggtgtgcgg	gtgaaggaga	cagctgactt	1680
caaggtgtac	acaaaggggc	ctggcagttg	ggagctgaag	gtcacccgtg	agggcccca	1740
gggagaggag	cgcgtgaagc	agaaggacct	gggggatggc	gtgtatggct	tcgagtatta	1800
ccccatgggtc	cctggaacct	atatcgtcac	catcacgtgg	ggtgggtcaga	acatcgggcg	1860
cagtcccttc	gaagtgaagg	tgggcaccga	gtgtggcaat	cagaagggtac	gggcctgggg	1920
ccttgggctg	gagggcgggc	tcgttggcaa	gtcagcagac	tttgtggtgg	aggctatcgg	1980
ggacgcagtg	ggcacgctgg	gcttctcggt	ggaaggccca	tcgcaggcta	agatcgaaatg	2040
tgacgacaa	ggcgacggct	cctgtgatgt	gcgctactgg	ccgcaggagg	ctggcgagta	2100
tgccgttcac	gtgctgtgca	acagcgaaga	catccgcctc	agcccttca	tggctgacat	2160
ccgtgacgg	ccccaggact	tccaccacga	cagggtgaag	gcacgtgggc	ctggattgga	2220
gaagacacgt	gtggcgctca	acaagccagc	agagttcaca	gtggatgcca	agcacgggtg	2280
caaggcccca	cttcgggtcc	aagtcacgga	caatgaaggc	tgccctgtgg	aggcgttgg	2340
caaggacaa	ggcaatggca	cttacagctg	ctcctacgtg	cccagggaagc	cggtgaagca	2400
cacagccatg	gtgtcctggg	gaggcgctcag	catccccaac	agcccttca	gggtgaatgt	2460
gggagctggc	agccacccca	acaaggctcaa	agtatacggc	cccggagtag	ccaagacagg	2520
gctcaaggcc	cacgagccca	cctacttcac	tgtggactgc	gcccaggcctg	gccaggggga	2580
cgctcagatc	ggcctcaagt	gtgcccctgg	agtggttaggc	cccgcogaag	ctgacatcga	2640
cttcgacatc	atccgcgaatg	acaatgacac	cttcacggtc	aagtacacgc	cccggggggc	2700
tggcagctac	accattatgg	tccctcttgc	tgaccaggcc	acgcccacca	gccccatccg	2760
agtcaagggtg	gagccctctc	atgacgcccag	taagggtgaag	gcccaggggc	ctggcctcag	2820
tcgcactggt	gtcgagcttg	gcaagccac	ccacttcaca	gtaaatgcca	aagctgctgg	2880
caaaggcaag	ctggacgctc	agttctcagg	actaccaag	ggggatgcag	tgcgagatgt	2940
ggacatcatc	gaccaccatg	acaacaccta	cacagtcaag	tacacgcctg	tccagcaggg	3000
tccagtaggc	gtcaatgtca	cttatggagg	ggatcccatc	cctaagagcc	ctttctcagt	3060
ggcagtatct	ccaagcctgg	acctcagcaa	gatcaagggtg	tctggcctgg	gagagaaggt	3120
ggacgttggc	aaagaccagg	agttcacagt	caaatcaaag	ggtgctggtg	gtcaaggcaa	3180
agtggcatcc	aagattgtgg	gccccctggg	tgcagcgggtg	ccctgcaagg	tggagccagg	3240
cctgggggct	gacaacagtg	tgggtgcgctt	cctgccccgt	gagggaagggc	cctatgagggt	3300
ggagggtgacc	tatgacggcg	tggccgtgcc	tggcagcccc	tttctcttgg	aagctgtggc	3360
ccccaccaag	cctagcaagg	tgaaggcggtt	tgggcccggg	ctgcagggag	gcagtgcggg	3420
ctcccccgcc	cgcttcacca	tcgacaccaa	gggcccgggc	acagggtggc	tgggcctgac	3480
gggtggagggc	ccctgtgagg	cgcagctcga	gtgcttggac	aatggggatg	gcacatgttc	3540
cgtgtcctac	gtgcccaccg	agccccggga	ctacaacatc	aacatcctct	tcgctgacac	3600
ccacatccct	ggctccccat	tcaaggccca	cgtgggtccc	tgctttgacg	catccaaagt	3660
caagtgtcoa	ggccccgggc	tggagcgggc	caccgctggg	gaggtgggac	aattccaagt	3720
ggactgctcg	agcgcgggca	gcgcggagct	gaccattgag	atctgctcgg	aggcggggct	3780
tccggccgag	gtgtacatcc	aggaccacgg	tgatggcacg	cacaccatta	cctacattcc	3840
cctctgcccc	ggggcctaca	ccgtcaccat	caagtacggc	ggccagcccc	tgcccaactt	3900
ccccagcaag	ctgcaggtgg	aacctgcggt	ggacacttcc	ggtgtccagt	gctatgggct	3960
tgttattgag	ggccagggtg	tcttcogtga	ggccaccact	gagttcagtg	tggacgcccc	4020

bioRxiv preprint doi: <https://doi.org/10.1101/123456>; this version posted January 1, 2018. The copyright holder for this preprint (which was not certified by peer review) is the author/funder, who has granted bioRxiv a license to display the preprint in perpetuity. It is made available under aCC-BY-NC-ND 4.0 International license.

ggctctgcaga	cagaccggag	ggcgccacgt	caaggcccggt	gtggccaacc	cctcaggcaa	4080
cctgacggag	acctacgttc	aggaccgtgg	cgatggcatg	tacaaagtgg	agtacacgcc	4140
ttacgaggag	ggactgcact	ccgtggacgt	gacctatgac	ggcagtcctg	tgcccagcag	4200
ccccctccag	gtgcccgtga	ccgaggggctg	cgacccctcc	cgggtgctgt	tcccagggcc	4260
aggcatccaa	agtggcacca	ccaacaagcc	caacaagttc	actgtggaga	ccaggggagc	4320
tggcacgggc	ggcctgggcc	tggctgtaga	gggcccctcc	gaggccaaga	tgtcctgcat	4380
ggataaacaag	gacggcgagct	gctcggtoga	gtacatccct	tatgaggctg	gcacctacag	4440
cctcaacgtc	acctatggtg	gccatcaagt	gccaggcagt	cctttcaagg	tccctgtgca	4500
tgatgtgaca	gatgctgcca	aggccaagtg	ctctggggcc	ggcctgagcc	caggcatggt	4560
tcgtgccaac	ctccctcagt	ccttccaggt	ggacacaagg	aaggctggtg	tggcccattt	4620
gcaggtcaaa	tgcaaggggc	ccaaaggcct	ggtggaggca	gtggacgtgg	tagacaacgc	4680
tgatggcacc	cagacogtca	attatgtgcc	cagccgagaa	gggcccctaca	gcatctcagt	4740
actgtatgga	gatgaagagg	taccccgagg	ccccttcaag	gtcaagggtg	tgccctactca	4800
tgatgccagc	aagggtgaagg	ccagtgggcc	cgggctcaac	accactggcg	tgcctgccag	4860
cctgcccgtg	gagttaccac	tcgatgcгаа	ggagcccggg	gagggcccgc	tggctgtcca	4920
gatcacggat	cccgaaggca	agccgaagaa	gacacacatc	caagacaacc	atgacggcac	4980
gtatacagtg	gcctacgtgc	cagacgtgac	aggctcgctac	accatcctca	tcaagtacgg	5040
tggtgacgag	atccccctct	ccccgtaccg	cgtgctgtgc	gtgcccaccg	gggacggcag	5100
caagtgcact	gtcacagtgt	caatcggagg	tcacgggcta	ggtgtgtggca	tcgggccccac	5160
cattcagatt	ggggaggaga	cggtgatcac	tgtggacact	aaggcggcag	gcaaaggcaa	5220
agtgacgtgc	accgtgtgca	cgtctgatgg	ctcagaggtg	gatgtggacg	tgggtggagaa	5280
tgaggacggc	acttttcgaca	tcttctacac	ggccccccag	ccggggcaaat	acgtcatctg	5340
tgtgctcttt	ggtggcgagc	acgtgcccaa	cagccccctc	caagtgcagg	ctctggctgg	5400
ggaccagccc	tcggtgcagc	ccccctctacg	gtctcagcag	ctgggccccac	agtacacctca	5460
ggcccagggc	ggccagcaga	cttggggccc	ggagaggccc	ctggtgggtg	tcaatgggct	5520
cgcctaggac	agccctgagc	ccccctgccc	tgctaccccc	ttcacctatca	agaaggggcga	5580
gatcacaggg	gaggttcgga	tgccctcagg	caaggtggcg	cagccccacca	tcactgacaa	5640
caaagacggc	accgtgaccg	tgcggtatgc	accagcgag	gctggcctgc	acgagatgga	5700
catccgctat	gacaacatgc	acatcccagg	aagccccctg	cagttctatg	tggattacgt	5760
caactgtggc	catgtcatgc	cctatggggc	tggccctcacc	catggagtag	tgaacaagcc	5820
tgcccaccttc	accgtcaaca	ccaaggtatgc	aggagagggg	ggcctgtctc	tggccattga	5880
gggcccgtcc	aaagcagaaa	tcagctgcac	tgacaaccag	gatgggacat	gcagcgtgtc	5940
ctacctgcct	gtgctgccgg	gggactacag	cattctagtc	aagtacaatt	aacagcacgt	6000
cccaggcagc	cccttccactg	ctcgggtcac	aggtagcagc	tcctatcgta	tgtcccacct	6060
aaaggctcgg	ttctgtcgcc	acatccccat	caacatctca	gagacggatc	tcagcctgct	6120
gacggccact	gtggttcccg	cctcggggccg	ggaggagccc	tgtttgctga	agcggctgcg	6180
taatggccac	gtggggattt	cattctgtgcc	caaggagacg	ggggagcacc	tgggtgcatgt	6240
gaagaaaaat	ggccagcacg	tggccagcag	ccccatcccc	gtgggtgatca	gccagctcga	6300
aattggggat	ggcagtcgtg	ttcgggtctc	tgttcaggcg	cttcacgaag	gccacacctt	6360
tgagcctgca	gagtttatca	ttgataccgg	cgatgcaggc	tatggtgggc	tcagcctgtc	6420
cattgagggc	cccagcaagg	tggacatcaa	cacagaggac	ctggaggacg	ggagctgcag	6480
ggtcacctac	tgccccacag	agccaggcaa	ctacatcatt	aacatcaagt	ttgccagacca	6540
gcacgtgcct	ggcagccctt	tctctgtgaa	ggtgacaggc	gagggccggg	tgaagagag	6600
catacccgcc	aggcgtcggg	ctccttcagt	ggccaacggt	tgtagtcatt	gtgacctcag	6660
cccgaaaatc	cccgaaatta	gcatccagga	tatgacagcc	caggtgacca	gcccctcggg	6720
caagaccat	gagggccgaga	tcgtggaagg	ggagaaccac	acctactgca	tccgctttgt	6780
tcccgctgag	atgggcacac	acacagtcag	cgtcaagtac	aagggccagc	acgtgccttg	6840
gagcccccct	cagttccaccg	tggggcccct	aggggaaagg	ggagcccaca	aggtccgagc	6900
tgggggcccc	ggcctggaga	gagctgaagc	tggagtgcga	ggcgaattca	gtatctggac	6960
ccggggaagc	gtgctgggag	gcctggccat	tgtctgcgag	ggccccagca	aggctgagat	7020
ctcttttgag	gaccgcaagg	acggctcctg	tgggtgtggc	tatgtggtcc	aggagccagg	7080
tgactacgaa	gtctcagtc	agttcaacga	ggaacacatt	cccagacgcc	ccttctgtgt	7140
agcctgtgag	tctcgtctcg	gcgacggccc	ccgcctcact	gtttctagcc	ttcaggagtc	7200
gggtgaaaag	gtcaaccacg	cagcctcttt	tgagtcagc	ctgaacgggg	ccaagggggc	7260
gatcgatgcc	aagggtgcaca	gcccctcagg	agccttgagg	gagtgctatg	tcacagaaat	7320
tgaccaagat	aagtatgctg	tgcgcttcat	ccctcgggag	aatggcggtt	acctgattga	7380
cgtcaagttc	aacggtaacc					

gggcctgggg	ctgagcaagg	cctacgtagg	ccagaagagc	agcttcacag	tagactgcag	7920
caaagcaggc	aacaacatgc	tgctggtggg	ggttcctggc	ccaaggaccc	cctgcgagga	7980
gacccgtggtg	aagcacgtgg	gcagccggct	ctacagcgtg	tcctacctgc	tcaaggacaa	8040
gggggagtag	acactgggtg	tcaaatgggg	gcacgagcac	atcccaggca	gccccctaccg	8100
cggttggtg	ccctgagctc	ggggcccggtg	ccagccggca	gcccccaagc	ctgccccgct	8160
acccaagcag	ccccgcccctc	ttccccctcaa	ccccggccca	ggcgccccctg	gccccccgccc	8220
tgctactgca	gctgccccctg	ccctgtgccc	tgctgcgctc	acctgcctcc	ccagccagcc	8280
gctgacctct	cggctttcac	ttgggcagag	ggagccattt	ggtggcgctg	cttgtcttct	8340
ttgggtctg	gaggggtgag	ggatgggg				8368

<210> 276

<211> 4803

<212> DNA

<213> Homo sapiens

<400> 276

gaggctgcct	agttgacgca	cccattgagt	cgctggcttc	tttgacgcgc	ttcagcgttt	60
tcccttggag	ggcgccctcca	tcccttggagg	cctagtggccg	tccgagaaga	gagcgggagc	120
cgcgagacaga	gacgcgtgcg	caattcggag	ccgactctgg	gtgcggactg	tgggagctga	180
ctctgggttag	ccggctgcgc	gtggctgggg	aggcgaggcc	ggacgcacct	ctgtttgggg	240
gtcctcagag	attaatgatt	catcaaggga	tagttgtact	gttctcgtgg	gaatcacttc	300
atcatgcgaa	atctgaaatt	atttcggacc	ctggagtcca	gggatatcca	aggtccaggg	360
aatcctcagt	gcttctctct	ccgaactgaa	caggggacgg	tgctcattgg	ttcagaacat	420
ggcctgatag	aagtagaccc	tgtctcaaga	gaagtgaaaa	atgaagtctc	tttgggtggca	480
gaaggctttc	ttccagagga	tgggaagtggc	cgcattgttg	gtgttcagga	cttgctggat	540
caggagtctg	tgtgtgtggc	cacagcctct	ggagacgtca	tactctgcag	tctcagcaca	600
caacagctgg	agtgtgttgg	gagtgtagcc	agtggatatc	ctgttatgag	ttggagtcc	660
gaccaagagc	tggtgtctct	tgccacaggt	caacagaccc	tgattatgat	gacaaaagat	720
tttgagccaa	tcctggagca	gcagatccat	caggatgatt	ttggtgaaag	caagtttatc	780
actgttggat	ggggtaggaa	ggagacacag	ttccatggat	cagaaggcag	acaagcagct	840
tttcagatgc	aaatgcattg	gtctgctttg	ccctgggatg	accatagacc	acaagttacc	900
tggcgggggg	atggacagtt	ttttgctgtg	agtggttgtt	gcccagaaac	aggggctcgg	960
aaggctcagag	tgtggaaccg	agagtttgc	ttgcagtcaa	ccagtgcagc	tgtggcagga	1020
ctgggaccag	ccctggcttg	gaaaccctca	ggcagtttga	ttgcatctac	acaagataaa	1080
cccaaccagc	aggatatgtg	gtttttttgag	aaaaatggac	tccttcatgg	acactttaca	1140
cttcccttcc	ttaaagatga	ggttaaggta	aatgacttgc	tctggaatgc	agattcctct	1200
gtgcttgca	tccggctgga	agaccttcag	agagaaaaaa	gctccattcc	gaaaacctgt	1260
gttcagctct	ggactgttgg	aaactatcac	tggtatctca	agcaaaagtt	atccttcagc	1320
acctgtggga	agagcaagat	tgtgtctctg	atgtgggacc	ctgtgacccc	ataccggctg	1380
catgttctct	gtcagggctg	gcattacctc	gcctatgatt	ggcactggac	gactgaccgg	1440
agcgtgggag	ataattcaag	tgacttgttc	aatgtggctg	tcattgatgg	aaacaggggtg	1500
ttggtgacag	tcttcgggca	gactgtgggt	cgccctccca	tgtgcaccta	ccaactgctg	1560
ttcccacacc	ctgtgaatca	agtcacattc	ttagcacacc	ctcaaaagag	taatgacctt	1620
gctgttctag	atgccagtaa	ccagattttct	gtttataaat	gtggtgattg	tccaagtgtc	1680
gaccctacag	tgaaaactggg	agctgtgggt	ggaagtggat	ttaaaagtgtg	ccttagaact	1740
cctcatttgg	aaaagagata	caaaaatccag	tttgagaata	atgaagatca	agatgtaaac	1800
ccgctgaaac	taggccttct	cacttggatt	gaagaagacg	tcttcctggc	tgtaagccac	1860
agtgaattca	gcccccggtc	tgtcatccac	catttgactg	cagcttcttc	tgagatggat	1920
gaagagcatg	gacagctcaa	tgtcagttca	tctgcagcgg	tggatgggggt	cataatcagt	1980
ctatgttgca	attccaagac	caagtcahta	gtattacagc	tggctgatgg	ccagatattt	2040
aagtaccttt	gggagtcacc	ttctctggct	attaaaacct	ggaagaactc	tggtggattt	2100
cctgttcgggt	ttccttatcc	atgcacccag	accgaattgg	ccatgatggg	agaagaggaa	2160
tgtgtccttg	gtctgactga	caggtgtcgc	tttttcatca	atgacattga	ggttgcgtca	2220
aatatcacgt	catttgcagt	atatgatgag	tttttattgt	tgacaaccca	ttcccatacc	2280
tgccagtgtt	tttgcctgag	ggatgcttca	tttaaaacat	tacaggccgg	cctgagcagc	2340
aatcatgtgt	cccattggga	agttctgcgg	aaagtggaga	ggggttcacg	gattgtcact	2400
gttgtgcccc	aggacacaaa	gcttgtatta	cagatgcctaa	ggggaaacct	agaagttgtt	2460
catcatcgag	ccctggtttt	agctcagatt	cgggaagtgg	tggacaaact	tatgtttaaa	2520
gaggcatttg	aatgcattgag	aaagctgaga	atcaattctca	atccgattta	tgatcataac	2580
cctaagggtg	ttcttggaaa	tgtggaaaacc	ttcaattaaac	agatagattc	tgtgaatcat	2640
attaaactgt	tttttacaga	attgaaaagaa	gaagatgtca	cgaagaccat	gtaccctgca	2700
ccagttacca	gcagtgtcta	cctgtccagg	gacccgtgacg	ggaataaaaat	agaccttgct	2760
tgcgatgcta	tgagagcagt	catggagagc	ataaatcctc	ataaatactg	cctatccata	2820
cttacatctc	atgtaaagaa	gacaacccca	gaactggaaa	ttgtactgca	aaaagtacac	2880

gagcttcaag	gaaatgctcc	ctctgatcct	gatgctgtga	gtgctgaaga	ggccttgaaa	2940
tatttgctgc	atctggtaga	tgtaaatgaa	ttatatgatc	attctcttgg	cacctatgac	3000
tttgatttgg	tcctcatggt	agctgagaag	tcacagaagg	atcccaaaaga	atatcttcca	3060
tttcttaata	cacttaagaa	aatggaaact	aattatcagc	ggtttactat	agacaaatac	3120
ttgaaaacgat	atgaaaaaagc	cattggccac	ctcagcaaat	gtggacctga	gtacttccca	3180
gaatgcttaa	acttgataaa	agataaaaaac	ttgtataacg	aagctctgaa	gttatattca	3240
ccaagctcac	aacagtagca	ggatatcagc	attgcttatg	gggagcacct	gatgcaggag	3300
cacatgtag	agccagcggg	gctcatgttt	gcccgttgcg	gtgcccacga	gaaaagctctc	3360
tcagcctttc	tcacatgtgg	caactggaag	caagccctct	gtgtggcagc	ccagcttaac	3420
tttaccaaaag	accagctggt	gggcctcggc	agaactctgg	caggaaaagct	ggtttgagcag	3480
aggaagcaca	ttgatgcggc	catggttttg	gaagagtgtg	cccaggatta	tgaagaagct	3540
gtgctcttgc	tgtagaagg	agctgcctgg	gaagaagctt	tgaggctggt	atacaaatat	3600
aacagactgg	atattataga	aaccaacgta	aagccttcca	ttttagaagc	ccagaaaaat	3660
tatatggcat	ttctggactc	tcagacagcc	acattcagtc	gccacaagaa	acgttttattg	3720
gtagtgcgag	agctcaagga	gcaagcccag	caggcaggtc	tggatgatga	ggtacccccc	3780
gggcaagagt	cagacctctt	ctctgaaact	agcagtgtcg	tgagtggcag	tgagatgagt	3840
ggcaaatact	cccacagtaa	ctccaggata	tcagcgagat	catccaagaa	tcgcccgaata	3900
gcgagcgga	agaagcacag	cctcaagaa	ggcagtcgcg	tggaggacct	ggccctcctg	3960
gaggcactga	gtgaagtggg	gcagaacact	gaaaacctga	aagatgaagt	ataccatatt	4020
ttaaaggtag	tttttctctt	tgagtttgat	gaacaaggaa	gggaattaca	gaaggccttt	4080
gaagatacgc	tgtagttgat	ggaaaggta	cttcagaaaa	tttgactctt	tacttaccag	4140
cagaattcag	ctaccccggt	tctaggtccc	aattctactg	caaatagtag	catggcatct	4200
tatcagcaac	agaagacttc	ggttcctggt	cttgatgctg	agctttttat	accaccaag	4260
atcaacagaa	gaacccagtg	gaagctgagc	cctctagact	gagtgactgc	agttaggagg	4320
gatccgacag	agaagaccat	ttccactcat	tcctgtgtgc	ctaccacccc	ttgctctttg	4380
agggctggct	attgagaact	ggaaagagta	aaatgataac	ttaccttagc	attgccaaga	4440
acttcagcag	acaacaagca	attctattta	ttttatgttg	tgtatacatc	ttgatcatta	4500
gcaagacatt	aagctttaac	cattatggca	ccattttgtg	agaatgattg	ttctttcact	4560
tgggctgttt	gagagcataa	ttatggtaat	catgagatta	atgtttcatg	atttctacct	4620
ccaaagtgtg	aagacaagta	aaacaatgtt	tctaaattgt	cttattttgt	tggcggagaa	4680
gattacaatg	gctatttagt	ctacatttgg	tcaaatgtaa	tcacttaaat	agcttcttgt	4740
caccttaaac	taaagcagaa	taaaaagtat	cctttgaaat	taaaaaaaac	aaaaaagcta	4800
aaa						4803

<210> 277
 <211> 3548
 <212> DNA
 <213> Homo sapiens

<400> 277						
tggccgaagc	aggggggacag	caaggggagc	tcaggcgggg	accatggcgg	acggcgggctc	60
ggagcggggt	gacggggcgca	tcgtcaagat	ggaggtggac	tacagcgcca	cgggtggatca	120
gcgcctaccc	gagtgtgcga	agctagccaa	ggaaggaaga	cttcaagaag	tcattgaaac	180
ccttctctct	ctggaaaagc	agactcgtac	tgcttccgat	atggtatcga	catcccgtat	240
cttagttgca	gtagtgaaga	tggtctatga	ggctaaagaa	tgggattttac	ttaatgaaaa	300
tattatgctt	ttgtccaaaa	ggcggagtc	gttaaaacaa	gctgttgcca	aaatgggttca	360
acagtgtgtg	acttatgttg	aggaaatcac	agaccttcct	atcaaaacttc	gattaattga	420
tactctacga	atggtttaccg	aaggcaagat	ttatgttgaa	attgagcgtg	cgcgactgac	480
taaaacatta	gcaactataa	aagaacaaaa	tggtgatgtg	aaagaggcag	cctccatttt	540
acaggagtta	caggtggaaa	cctacgggtc	aatggaaaag	aaagagcgag	tggaaatttat	600
tttggagcaa	atgaggctct	gcctagctgt	gaaggattac	attcgaacac	aaatcatcag	660
caagaaaatt	aacaccaa	ttttccagga	agaaaataca	gagaaattaa	agttgaagta	720
ctataattta	atgattcagc	tggatcaaca	tgagggatcc	tatttgtcta	tttgtaagca	780
ctacagagca	atatattgata	ctccctgtat	acaggcagaa	agtgaataat	ggcagcaggc	840
tctagaaggt	gtttgactct	atgttatcct	ggctcctttt	gacaatgaac	agtcagattt	900
ggtttcacga	tataagtggg	acaagaagtt	agaagaaatt	cccaaataca	aggatcctttt	960
aaagcttttt	accacaatgg	agttgatgog	ttgggtccaca	cttgttgagg	actatggaat	1020
ggaatttaaga	aaaggttccc	ttgagagtc	tgcaacggat	gtttttgggt	ctacagagga	1080
aggtgaaaaa	aggtggaaaag	acttgaagaa	cagagttgtt	gaacataata	ttagaataat	1140
ggccaagtat	tatactcgga	taacaatgaa	aaggatggca	cagcttctgg	atctatctgt	1200
tgatgagtc	gaagcctttc	tctcaaatct	agtagttaac	aagaccatct	ttgctaaaagt	1260
agacagatta	gcaggaatta	tcaacttcca	gagacccaag	gatccaaata	atttattaaa	1320
tgactggctc	cagaaaactga	actcatcaat	gtctctgggt	aacaaaacta	cgcactctcat	1380
agccaaaagag	gagatgatac	ataatctaca	ataagggtct	tagtgcttta	gaaaaaagtt	1440

aaaattggaa	gtcattaaaa	aaagactggt	ataatgggtg	atatgttggg	gttttttttc	1500
taagcttctt	tgtctttaat	tttataaatg	tgaatatggt	tgagactccc	tttgaccttt	1560
cagttcccca	agttcattgt	taacttttga	tttgcaattg	gtgcaaaaat	acagatttct	1620
gtcgtctgaa	tacacaaaaa	gttgtgtcat	aacttaccoc	gatagtgttt	tctatcattt	1680
gaaacctttt	tagctactgt	ttgttttcat	tcaactaaca	aacatatccc	aataataaaa	1740
gcagtatata	catatttcc	ttctacagtt	acctctgatt	ctcaacattt	tgtggggtag	1800
tgatttggca	agtgtttttt	aaataaaaac	aatctcattg	taaagtttat	agtcattttg	1860
tagaatagaa	aagcaacata	gagcatacaa	gaacattttg	gatagagtgt	tgatttgtga	1920
agaatttgta	ctttgatatt	gtggcgga	gtctagactg	agtgtgtatg	ctggtaaaat	1980
gtagactttt	tttttttttt	ttgagtcggg	ctggttccaa	tcacagtagc	ttgattgctt	2040
tcagccctca	tcctctcact	tgatcagttg	ttcaacagaa	tcagctgaca	taattgacac	2100
agtttattgg	gtgttaagtc	cgctctatag	ggatagtgac	tacttttttt	tttttttttt	2160
tttttgcctt	tcttctcttc	ccctttcttt	atatgggttt	aaatttaaca	ttaaagtgtt	2220
ttttataagg	ttatttctgt	ctttaacttg	taagtctgat	tacatcatta	ttgttccaaa	2280
ttcattatct	ctgtaggaac	tttttagttc	atttatatga	cactggataa	cctaattttt	2340
tttaattgct	taaaaaaatg	gcaaaaagac	gtcaggccac	cctcatagta	agtggtgtag	2400
tattaaaaat	ttttcacgga	attaaaagta	gcttgctgtc	aaagaaacac	ctgagatgaa	2460
ttggtgtgaa	cgaatttttg	aagtttaatt	tgattttatt	cagagaaaat	agaaaaaaca	2520
atggttagaag	gttattttaa	atgatactta	aataaagaaa	gtgtgaggtc	tactttaaaa	2580
aaattcaaat	gaagagaaaa	agaaaaacag	cattctagaa	atggcatatt	tcctaattaa	2640
ttttccactt	aatggaagat	tatcaattgt	cctattttat	gatcccagga	ctgaagacag	2700
ttgtgggata	tctgtcatat	ttatcctgtg	agtcattgtg	aataatgaca	tacagtactg	2760
aagtaattct	attttttctt	ttggaaattc	attgcattgg	tcacactaat	aacatcaaca	2820
tctgtctatc	cttatctttt	taaaactaac	caaaaaaggc	tgggattaca	ggcatgagcc	2880
actgcaccca	actcctcttt	cgctctttct	taacacacac	taggctcttt	gtgtattatg	2940
attcagtgct	atttgaactt	gtgtcccagt	gaccaaatgt	cactcgactc	gatcagctgt	3000
tcattccattt	cggtgttttt	cctgtcaaac	attaatccag	caaatatatg	aggtattttac	3060
caattttattt	tccttagtatt	acaaaaataat	tcattagcat	aaagtacaa	agtgaatat	3120
ttgagttggt	cggaacctca	attaatcctg	ttttacattt	cagacctaaa	gctggcaatc	3180
aggagaagaa	gcactttggt	ttaaatgtgg	agaagataac	acttgattcc	atttcattgt	3240
cattagtgtg	tttaaccagca	ggagaggtga	tgagccattt	ttcaaataga	atacctttta	3300
tttccatata	atttttttat	tttagagttc	aatagctggt	tctatgatta	tcctcaattt	3360
ccatattgtta	ctgaatctga	aaaacatctt	taaaattcaa	acagttccat	tttctctctt	3420
gtaagtgtta	aatgtgataa	aagtacatat	tttaaatgtg	tttcagctct	tggatatagc	3480
agcaataaaa	acactaattt	gtgggtattt	aagaaaacct	ggagaataaa	ctcatacttt	3540
aaaagatc						3548

<210> 278
 <211> 4022
 <212> DNA
 <213> Homo sapiens

<400> 278	gtctccctgc	cgccgcgcgc	gcccgcgcgc	ggccgcgcgc	ggccgcgcgc	60
gtacgtgcgc	gcgcgggagg	aggaggagga	ggccgcgcgc	cgccgcgcgc	cgccgcgcgc	120
gcgcgacgac	gcgcggcggc	gcccgcgcgc	ctcgcagccc	cgccgcgcgc	cgccgcgcgc	180
gcccgggctc	gcgcggcaca	tgaaccacca	gcgcgagcag	cagcagcaga	aagcgggcga	240
ggcccaggcc	agcgcgccc	aggacatgga	gatggaagcg	ggagatacag	atgaccacc	300
gcagcagttg	agcgcgccc	tgatcaatgg	gaatgtggcc	ctgagtgatg	gacacaacac	360
aagaattact	gacatggagg	atgacaccag	ttggcgctcc	gaggcaacct	ttcagttcac	420
cgcgaggagg	ttcagcagac	tgagtgaagc	ggtccttagc	cctccgtgtt	ttgtgcgaaa	480
tgtggagcgc	aagattatgg	tgatgccacg	cttttatcca	gacagaccac	acaaaaaag	540
tctgccatgg	tttctccagt	gcaatgctga	atctgattcc	acgtcatggg	cttgccatgc	600
cgtaggattc	tttctccagt	taaattacag	agatgatgaa	aagtcgttca	gtcgtcgtat	660
acaagcagtg	ctgaagataa	aagaaaaatg	ttggggatgt	tccaatttta	tggcctggag	720
tagtcatttg	gatcctgaga	aaggattttat	agatgatgac	aaagttacct	ttgaagtctt	780
tgaagtgacc	gatgctcccc	atggagttgc	gtgggattca	aagaagcaca	caggctacgt	840
tgtacaggcg	aatcagggag	cgacttggtt	catgaacagc	ctgctacaga	cgttattttt	900
cggcttaaa	ctacgaaagg	ctgtgtacat	gatgccaaac	gagggggatg	attcgtctaa	960
cacgaatcag	ttagcattac	aaagagtgtt	ctatgaatta	cagcatagtg	ataaacctgt	1020
aagcgtccct	aagtttaacaa	agtcattttg	gtgggaaact	ttagatagct	tcattgcaaca	1080
aggaacaaaa	gagcttttgt	gagtggttgt	cgataatgtg	gaaaataaga	tgaaggcac	1140
tgatgttcag	ggcaccatgc	ccaaatttat	ccgcggcaaa	atgggtgtct	atatccagtg	1200
ctgtgtagag	gactatcggt	ctgatagaag	agaagattat	tatgatatcc	agctaagtat	1260
ttaaagaagta						

caaaggaaaag	aaaaatatat	ttgaatcatt	tgtggattat	gtggcagtag	aacagctcga	1320
tgggggacaat	aaatacgacg	ctgggggaaca	tggccttacag	gaagcagaga	aaggtgtgaa	1380
attcctaaca	ttgccaccag	tgttacatct	acaactgatg	agattttatgt	atgacctca	1440
gacggaccaaa	aatatcaaga	tcaatgatag	gtttgaattc	ccagagcagt	taccacttga	1500
tgaatTTTTTg	caaaaaacag	atcctaagga	ccctgcaaat	tatatctctc	atgcagtcct	1560
ggttcatagt	ggagataatc	atggtggaca	ttatgtgggt	tatctaaacc	ccaaagggga	1620
tggcaaatgg	tgtaaatttg	atgacgacgt	ggtgtcaagg	tgtactaaag	aggaagcaat	1680
tgagcacaat	tatgggggtc	acgatgacga	cctgtctgtt	cgacactgca	ctaattgctta	1740
catgttagtc	tacatcaggg	aatcaaaact	gagtgaagtt	ttacaggcgg	tcaccgacca	1800
tgatattcct	cagcagttgg	tggagcgatt	acaagaagag	aaaaggatcg	aggctcagaa	1860
gcggaaggag	cggcaggaag	cccattctcta	tatgcaagtg	cagatagtcg	cagaggacca	1920
gttttTgtggc	caccaagggga	cgatgacatga	cgatgaagaa	aaagtgaat	acactgtgtt	1980
caaagtattg	aagaactcct	cgcttgctga	gtttgttcag	agcctctctc	agaccatggg	2040
atTTccacaa	gatcaaattc	gattgtggcc	catgcaagca	aggagtaatg	gaacaaaacg	2100
accagcaatg	ttagataatg	aagccgacgg	caataaaaaca	atgattgagc	tcagtataaa	2160
tgaaaaccct	tggacaatat	tcctggaaac	agttgatccc	gagctggctg	ctagtggagc	2220
gaccttacc	aagtttgata	aagatcatga	tgtaatgtta	tttttgaaga	tgtatgatcc	2280
caaaacgcgg	agcttgaatt	actgtgggca	tatctacaca	ccaatatcct	gtaaaatacg	2340
tgacttgctc	ccagttatgt	gtgacagagc	aggatttatt	caagatacta	gccttatcct	2400
ctatgaggaa	gttaaaccga	atttaacaga	gagaattcag	gactatgacg	tgtctcttga	2460
taaaagccct	gatgaactaa	tggatgggtga	catcatagta	tttcagaagg	atgacctga	2520
aaatgataac	agtgaattac	ccaccgcata	ggagtatttc	cgagatctct	accaccgcgt	2580
tgatgtcatt	ttctgtgata	aaacaatccc	taatgatcct	ggatttTgtgg	ttacgttatc	2640
aaatagaatg	aattattttc	aggttgcaaa	gacagttgca	cagaggctca	acacagatcc	2700
aatgttgctg	cagtttttca	agtctcaagg	ttatagggat	ggcccaggta	atcctcttag	2760
acataattat	gaaggtaact	taagagatct	ttcacagttc	ttcaagccta	gacaacctaa	2820
gaaactttac	tatcagcagc	ttaagatgaa	aatcacagac	tttgagaaca	ggcgaagttt	2880
taaattgtata	tggttaaaca	gccaatTTtag	ggaagaggaa	ataacactat	atccagacaa	2940
gcatgggtgt	gtccgggacc	tgttagaaga	atgtaaaaaag	gccgtggagc	ttggggagaa	3000
agcatcaggg	aaacttaggc	tgctagaaat	tgtaaagctac	aaaatcattg	gtgttcatca	3060
agaagatgaa	ctattagaat	gttttatctcc	tgaacgagc	cggacgtttc	gaatagagga	3120
aatccctttg	gaccagggtg	acatagacaa	agagaatgag	atgcttgctca	cagtggcgca	3180
tttccacaaa	gaggtcttcg	gaacgttcgg	aatcccgttt	ttgctgagga	tacaccaggg	3240
cgagcatttt	cgagaagtga	tgaagcgaat	ccagagcctg	ctggacatcc	aggagaagga	3300
gttttgagaag	tttaaatttg	caattgtaat	gacgggcccga	caccagtaca	taaatgaaga	3360
cgagtatgaa	gtaaaatttga	aagactttga	gccacagccc	ggtaatatgt	ctcatcctcg	3420
ggcttggcta	gggctcgacc	acttcaacaa	agcccccagg	aggagtgcgt	acacttacct	3480
tgaaaaggcc	attaaaatcc	ataactgatt	tccaagctgg	tgtgttcaag	gcgaggacgg	3540
tgtgtgggtg	gccccctaac	agcctagaac	tttgggtgcac	gtgccctcta	gccgaagtct	3600
tcagcaagag	gattcgctgc	tgggtgttaat	tttatTTtat	tgaggctgtt	cagtttggct	3660
tctctgtatc	tattgactgc	ccatttttag	caaaaTgaag	atgtttttat	aaagcttggga	3720
tgccaatgag	agttattttc	tggtaaccac	agtgcaaggc	aactgtcagc	gcaatggggg	3780
agaagaggtt	agtgatcggt	gggtccctgg	ctcaaggtct	ctgggctgtc	cctagtgggc	3840
acgagtggct	cggctgcctt	cctgggggtc	cgtgcaccag	ccctgcagct	agcaagtctt	3900
gtgttttaggc	togtctgacc	tatttctctc	agttataact	tcaatgacct	tttTgtgcac	3960
tgttaaaggca	aaacagagaa	actcacaacc	taataaatag	cgctcttccc	ttcaaaaaaa	4020
aa						4022

<210> 279
 <211> 3403
 <212> DNA
 <213> Homo sapiens

<400> 279						
caggtctgag	gcgaagctag	gtgagccgtg	ggaagaaaaag	agggagcagc	tagggcgcg	60
gtctccctcc	tcccgagatt	tggaaacggct	gaagttcacc	ttccagcccc	tagcgccgtt	120
cgcgccgcta	ggcctggctt	ctgaggcggt	tgcgggtgctc	ggctcgccgc	taagcggggc	180
aggggtgcgaa	caggggcttc	gggccacgct	tctcttggcg	acaggatttt	gctgtgaagt	240
ccgtccggga	aacggaggaa	aaaaagagtt	gccggaggct	gtctgcta	aacggttctt	300
gatacatatt	tgccagactt	caagatttca	gaaaaggggt	gaaagagaag	attgcaactt	360
tgagtccagac	ctgtaggcct	gatagactga	ttaaaccaca	gaaggtgacc	tgctgagaaa	420
agtggatcaa	atactgggaa	aaacctgctc	ttctgcgtta	agtgaggagac	aatgtcacia	480
gttaaaaagct	cttattccta	tgatgcccc	toggatttca	tcaatttttc	atccttggat	540
gatgaaggag	atactcaaaa	catagattca	tggttttagg	agaaggccaa	tttggaagt	600

atcaactggt	gcagaagaga	gatctgcgaa	acctaccaag	ctggcttcaa	aatcagccac	660
ctcagccaaa	gctgggtgta	gcaccatcac	tgattcttct	tctgctgctt	ctacttctct	720
ctcgtcttct	gctgtagcct	cggcctcctc	cactgtacca	ccaggtgcca	gagtgaataa	780
aggaaaaagt	cagaacaagg	ccaggcggtt	ccgttccagc	tccagttcca	gccccagaaa	840
aagtgcagc	gaaaaggaa	agatgaaaa	tgggtgctct	tcaaaatttg	attgggtgcg	900
tcgtttcagc	cttaaaagtt	gccttcttaa	aacaaaactg	tctcttccag	ggctttctaa	960
gtcagagaca	tcaaaacctg	gaccttctgg	attacaggcc	aaatttagca	gtttaagaaa	1020
atctacgaag	aaacgcagtg	agtctccacc	tgctgagctc	cccagtttga	ggcggagcac	1080
acgccccaaa	accacggggt	cctgtgctag	taccagtcgg	cgaggctctg	gcttgggcaa	1140
aagaggagca	gctgaagctc	gtcgacagga	gaaaatggca	gaccttgaaa	gcaaccagga	1200
ggcagtaaat	tcttcagctc	ctcggacaga	tgaagctccc	caaggagctg	caggggtgtg	1260
tggcatgacc	acctctgggg	agagtgaatc	agatgattcc	gagatgggac	gtttgcaagc	1320
tttggttagag	gcaaggggtc	ttccccctca	cctatttggt	cctcttgggt	ctcggatgtc	1380
acagcttttc	catagaacaa	ttggaagtgg	agctagtctt	aaggcccagc	agctactaca	1440
aggattgcaa	gccagtgatg	aaagtcaaca	gcttcaggca	gttattgaga	tgtgtcagtt	1500
actggtcatg	ggaaatagg	agacactggg	agggtttccct	gtcaagatgt	ttgttccagc	1560
tttgattacg	ttacttcaga	tggagcacia	ttttgatatt	atgaacctat	cttgtcgagc	1620
cttaacatac	atgatggaag	cacttccctc	atcttctgct	gttgtagtag	atgctattcc	1680
tgtcttttta	gaaaagctgc	aagttattca	gtgtattgat	gtggcagagc	aggccttgac	1740
tgccttggag	atgttgtcac	ggagacattc	taaaagccatt	ctacagcgcg	gtggtttggc	1800
agactgcttg	ctgtacctag	agaactctag	cataaatgcc	caagaagaat	cttagtcaat	1860
tgcagctaata	tgctgccaga	gtatcacgcc	agatgaattt	cattttgtgg	cagatttact	1920
cccatttgcta	acccaaaggc	taacacatca	ggataaaaag	tcagtagaaa	gcacttgcct	1980
ttgttttgca	cgcttagtgg	acaacttcca	gcattgaggag	aatttactcc	agcaggttgc	2040
ttccaaagat	ctgtttacaa	atggttcaaca	gctgttggtg	gtgactccac	ccatttttaag	2100
ttctgggagt	tttataattg	tggttcgcat	gttttctctg	atgtgttcca	actgtccaac	2160
tttagctgtt	caacttatga	aacaaaacat	tgcagaaaac	cttacttttc	tctgtgtggg	2220
tgcctccaat	ggaagtgtgc	aggaacagat	tgatcttggt	ccacgaagcc	ctcaagagtt	2280
gtatgaactg	acatctctga	tttgtgaact	tatgccattg	ttacccaaag	aaggcatttt	2340
tgcagttgat	accatgttga	agaagggaaa	tgcacagaa	acagattggt	cgatattgga	2400
tggcgctgat	gatcggggcc	tttggcatcc	atataacagg	attgacagcc	ggatcattga	2460
gcaaatcaat	gaggacacgg	gaacagcacg	tgccattcag	agaaaacctc	acccgttagc	2520
caatagtaac	actagtggat	attcagagtc	aaagaaggat	gatgtctcag	cacagcttat	2580
gaaaaggagt	ccggaactgg	ctaagtcttt	tattaagaca	ttatttgggt	ttctttatga	2640
agtgtatagt	tcttcagcag	gacctgcggg	cagacataag	tgccttagag	caattcttag	2700
gataatttat	tttgcggatg	ctgaacttct	gaaggatgtt	ctgaaaaatc	atgctgtttc	2760
aagtcacatt	gcttccatgc	tgtcaagcca	agacctgaag	atagtagtgg	gagcacttca	2820
gatggcagaa	attttaatgc	agaagttacc	tgatattttt	agtgtttact	tcagaagaga	2880
aggtgtaatg	catcaagtga	aacacttagc	agaattcagag	tctttgttga	caagtcacac	2940
aaagcgatgt	acgaattgat	cgggattccat	gggatccaca	acttcagtca	gcagtgggac	3000
agccacagct	gccactcatg	ctgcagctga	cttgggatca	cccagcttgc	agcacagcag	3060
ggatgatctt	ttagatctca	gcctccaagg	tcgattaagt	gatgttctaa	agagaaaaac	3120
actgccaata	cgagggccaa	gaaggccaaa	gtactcacct	caaagagatg	atgacaaaat	3180
agacaaatca	gctaaaagcc	ccaccattac	tcagtcacct	aaatctcttt	tctgtgcaag	3240
cttgaatcca	aaaacttagg	gaagggttaag	tacacagttc	aacagcaaca	acattgagcc	3300
agcacggact	gcgggaggtg	gtggccttgc	cagggctgoc	tcaaaggata	ccatctccaa	3360
taatagagaa	aaaattaaag	gttggattaa	ggagcaggga	cataaatttg	tagaacgtta	3420
tttcagttct	gagaatatgg	atggaagcaa	ccctgcattg	aatgtctctc	agagactttg	3480
tgtgtcaacc	gaacaactca	acctcagggt	ggatggttga	ctcaggtgct	ttgtagaaat	3540
ccgtagcata	gtctcagagt	cagatgtttc	atcatttgaa	atccaacata	gtggatttgt	3600
gaagcagctg	ttgctttatt	tgacatctaa	aagtgaataa	gatgtcttga	gcagagagat	3660
cagattaaag	cgattttctc	atgtattttt	ttcttctcca	cttctctgag	aagagcccat	3720
tggaagagtg	gaaccagtg	gtaattgcac	tttgttggca	ttagttccca	agatgaacaa	3780
ctgcctcagc	cagatggaa	aaattccagt	caaagttacat	gatttcccta	gtggaaatgg	3840
gacaggaggc	agcttttctc	tcaacagagg	atcacaggct	ttaaaaattt	tcaacacaca	3900
tcaattaaaa	tgccagttac	aaaggcatcc	agactgtgca	aatgtgaagc	agtggaaagg	3960
tggacctgtc	aagattgacc	ctctggcttt	ggtaacaagg	atcgagagat	accttgtagt	4020
tagagggtat	ggaagagtaa	gagaagatga	tgaagacagc	gtcagcag		

atcagtatca	aatccttttag	aagtttacct	cattcccaca	ccacctgaaa	atataacatt	4500
tgaagaccog	tcattagatg	tgatccttct	tttaagagtt	ttacatgcta	tcagtcgata	4560
ctgggtattac	ttgtatgata	atgcaatgtg	caaggaaaatt	attccaacta	gtgaatttat	4620
taacagtaag	ttaacagcaa	aagcaaatag	gcaacttcaa	gatccttttag	taatcatgac	4680
aggaaacatc	ccaacatggc	ttactgagct	aggaaaaaacc	tgcccattttt	tctttccttt	4740
tgatacccg	caaattgcttt	tttatgtaac	tgcatttgat	cgggaccgag	caatgcaaag	4800
attacttgat	accaaccag	aaatcaacca	gtctgattct	caagatagca	gagttgcacc	4860
tagattggat	agaaaaaaac	gtactgtgaa	ccgagaggag	ctgctgaaaac	aggcgaggatc	4920
tgtgatgcag	gacctcggca	gctcacgggc	catgttagaa	atccagtatg	aaaatgaggt	4980
tggtacaggt	cttgggccta	cactggagtt	ttatgcgctt	gtatctcagg	aactacagag	5040
agctgacttg	ggctctttgga	gaggtgaaga	agtaactctt	agcaatccaa	aaggagacca	5100
agaagggacc	aagtatatct	aaaacctcca	gggcctgttt	gcgcttccct	ttggtaggac	5160
agcaaagcca	gctcatatcg	caaagggttaa	gatgaagttt	cgcttcttag	gaaaattaat	5220
ggccaaggct	atcatggatt	tcagattggg	ggaccttccc	cttggcttac	ccttttataa	5280
atggatgcta	cggcaagaaa	cttcaactgac	atcacacgat	ttgtttgaca	tcgacccagt	5340
tgtagccaga	tcagttttatc	acctagaaga	cattgtcaga	cagaagaaaa	gacttgaaca	5400
agataaatcc	cagaccaaaag	agagtctaca	gtatgcatta	gaaaccttga	ctatgaatgg	5460
ctgctcagtt	gaagatctag	gactggattt	cactctgcca	gggtttccca	atatcgaact	5520
gaagaaagga	gggaaggata	taccagtcac	tatccacaat	ttagaggagt	atctaagact	5580
gggttatattc	tgggcactaa	atgaaggcgt	ttctaggcaa	tttgattcgt	tcagagatgg	5640
atltgaatca	gtcttcccac	tcagtcactt	tcagtacttc	taccocggag	aactggatca	5700
gctcctttgt	ggcagtaaaag	cagacacttg	ggatgcaaag	acactgatgg	aatgctgtag	5760
gocctgatcat	gggtatactc	atgacagtcg	ggctgtgaag	ttttgtttg	agattctcag	5820
tagttttgat	aatgagcagc	agaggttatt	tctccagttt	gtgactggtg	gccaagatt	5880
gocctgttga	ggattccgga	gtttgaatcc	acctttgaca	attgtccgaa	agacgtttga	5940
atcaacagaa	aaccacagatg	acttcttgcc	ctctgtaatg	acttgtgtga	actatcttaa	6000
gttgccggac	tattcaagca	ttgagataat	gogtgaaaaa	ctgttgatag	cagcaagaga	6060
agggcagcag	tcgtttccatc	tttcttgatt	atagcaagaa	atgcagtgtc	tgctgtttac	6120
agcaaaaagaa	acaaatcatg	atttcttttc	taattgtatc	acctgagtca	aggaaacatg	6180
ttacgccttc	ttgtttgtagg	aaaaacggct	tgcagattat	aaagagacat	ttggttgata	6240
ttcattaatg	gccccatgga	cttaaaagtga	tcaggcccta	aaacgttgtt	gtgatgaggt	6300
ttcttttagca	agttcttggt	ttaattatca	tttatttgat	gagtgaagtt	tttaacatgc	6360
tttgctgtgt	gaaattttaa	aaagggatgt	ttttccaggc	tggacaataa	aatgtggctg	6420
tgcagttt						6428

<210> 281
 <211> 1266
 <212> DNA
 <213> Homo sapiens

<400> 281						
gocggctcga	gggctcctag	tgcgccaggt	tgtgggaagt	gaggctggcg	gtggcgacaa	60
ccgaggagga	ggggcgggac	gggtggagcac	ggaccggctg	agcgtcatgg	agggctcagg	120
ggagcagccg	ggcccacaaac	cacagcatcc	cggagaccac	cgcatccgcg	acggcgactt	180
cgtggtgctg	aaacgtgaag	atgtgtttaa	agcagtacaa	gtccagcggg	gaaaaaaagt	240
aaactttcgaa	aaacagtggg	tctacctgga	taacgtcatt	ggccatagtt	atggaaactgc	300
atltgaagtg	accagtggag	gaagtctaca	gcccagaag	aagagggaag	agcctactgc	360
agagactaaa	gaagcgggca	ctgataatcg	aaatatagtt	gatgatggga	aatctcagaa	420
acttactcaa	gatgacataa	aagctttgaa	ggacaagggc	attaaaggag	aggaaatagt	480
tcagcagtta	attgaaaata	gtacaacatt	ccgagacaag	acagaatttg	cccaagataa	540
atatattaaa	aagaagaaaa	aaaaatatga	agccatcatt	actgtttgtg	agccatccac	600
ccgtattctt	tcaattatgt	attatgcaag	agaacctgga	aaaatttaacc	acatgagata	660
cgatacacta	gcccagatgt	tgacgttggg	aaatatccgt	gctggcaaca	aaatgattgt	720
gatggaaaacg	tgtgcaggct	tggtgctggg	tgcaatgatg	gaacgaatgg	gaggttttgg	780
ctccattatt	cagctatacc	ctggaggagg	acctgttcgg	gcagcaacag	catgttttgg	840
atltcccaaa	tctttttctca	gtggctcttta	tgaattccct	ctcaacaaag	tggaacagtc	900
tctacatgga	acattttctg	ccaagatggt	atcttcagag	ccaaaagaca	gtgcttttgg	960
tgaagaaagt	aatggcacac	tggaggaaaa	acaggcttct	gggcaagaga	atgaagacag	1020
catggcagag	gcccagagag	gcaaccaccc	agaagaccag	ggaacaatg	gaaacaattt	1080
ctcaagatcc	agaacataag	gggcctaaag	agagagggaag	caaaaaagat	tatatctcag	1140
ggaaaaacag	agggagacaa	ggaaggagca	gcggaaaaaga	cttttggggc	tgccgttttg	1200
cttgagttga	aaggaaacgc	cgatggtttt	atltgttagc	ttgttctttt	ccacccccat	1260
tctcct						1266

<210> 282
<211> 3962
<212> DNA
<213> Homo sapiens

<400> 282
aggaattccg gtagactgag cgcggcgcg cgcggcgcg gggagcgggc ggcggcgcg 60
cctcagcatg gaggacggct tctccagcta cagcagcctg tacgacacgt cctcgctgct 120
ccagttctgc aacgatgaca gcgcttctgc tgcaagtagc atggaggtga cagaccgcat 180
tgcttctactg gagcagagag tccagatgca agaagacgac atccagctgc tcaaatcagc 240
tctagctgat gtgggttcggc ggctgaacat tactgaggaa cagcaggccg tgcttaacag 300
gaaaggacct accaaagcaa gaccactgat gcagaccctg ccttttagat ccacgggtcaa 360
caatggcact gtgtttaccaa agatacctac tggctctcta ccatccccc cggggttcag 420
gaaagatact gctgtgccag caacaaaag taacatcaag aggaccagct cttctgaacg 480
agtgtctcct gggggctcgaa gggaaagcaa tggggattcc agaggaaacc ggaatcgac 540
aggctccacc agcagctctt ccagtggtcaa aaaagaacag tgaaagcaaa cccaaggagc 600
ctgtattcag tgcagaagaa ggctatgtaa aattgtttct tcgtggagcg cctgttacca 660
tgtacatgcc caaagatcaa gtggattctt acagcttgga agcaaaagta gaacttccaa 720
ccaagagact caagctggaa tgggtctatg ggtacagggg tcgagactgc cgtaacaacc 780
tgtacttgct tccgacggga gagaccgtct acttcatcgc atccgtgggtg gtgttatata 840
acgtggagga gcaactgcag aggcattacg ctggccacaa cgatgacgtg aagtgcctag 900
cagttcatcc tgatcggatc acgatagcaa caggacaagt tgccgggcaca tcgaaggatg 960
gaaaacaatt gccccacat gtgcgcactt gggattctgt gacattgaat actctccacg 1020
tcattggaaat aggttttttt gaccgagcag tcacctgtat tgcattctca aaatctaattg 1080
gaggaaccaa tctctgtgct gtggatgact ccaacgacca tgtgctctct gtatgggact 1140
ggcagaaaga agaaaaacta gcagatgtga agtgctctaa tgaagctgtg tttgctgcgg 1200
atttccaccc caccgacacc aacatcatag ttacttctgt gaagcaagga ttattcgaga acaagaaaag 1320
tggacactag aaggaagctc ccatttaataa aaacgggtga caccattact ggagattcaa 1380
ccaaagtgtg cctctgtgtg actttctctg caaatcgaat aagctatgca gttcaggggg 1440
gtggcaacat cttagtatgg ggaaaaggta tgttaaagaga tggcacactg gtgtcgggg 1500
cccattgagg tggcattttt ccacttttga cgcgaaaacta tcaaaaaactt cgtaaaaacgg 1560
gtgggaaaga ccgaaagctc atttcttgga gatggccga ggggaaaggc gatgtgatct 1620
agattccaga acagttttgg ccaatacggg actgtggcga gtcaggggac ttcacaccca 1680
tgattggcac aactcgaaac tttgtcctgc agggcactct ccatgcctca aaacctcagt 1740
ttactcaggg tcacactgat gagctctggg gactggccat cgctgtgggg caccgtcccg 1800
tcttgacctg tgggcatgac aagcatgcca ctctctggga ttttcatcct tcagggctctg 1860
tctgggacaa aataatagag gatccagctc agtcttctgg tgacacagaa acaaaagact 1920
tgggttcagc cgggaacact actgggaggt ggtttgtgtt agctctctgt aatgcgatac tcaccagatg 1980
tggtcaccgt tcacacagat ggaaacgaac actgcatcta tatatatggc gttagtgaac 2040
ggaatttctt agccataggg tcacatgaca gctcgggtca ttccagcttc attactcacc 2100
acgggaggaa gtacacgca gtgggcaagt gtcgaaattc cggagactac gaaatcctct 2160
tggactggct tgtaaaactc cagttcctcg ttgcaaaatt aactacaaga gacattgaat 2220
actgggttcc ctctgcctgt ttgggattcc atgtttttgg agtgtggcca gaaggctcgg 2280
gggctaccta tacctgcact ttgggattcc cccatgagaa gaaactcctg tcaacaggcg 2340
acggaaccga catcaatgcc gtctgtcggg acccctgctc gcagttcagg gctccaagcc 2400
acgacttttg caaagtgcac ctcttctcat ccaatgtcga tttcctctgt gaagacagcc 2460
acatctacgg cgggcacagc agccatgtca gcatcatgca gtggcgcgct atttagtacc 2520
acctcatctc cagggcggg aaagacacaa agcatgggca aggaagacac agactcgcat tacccttggt 2580
caccgagagc tgtggggagc agcattgaat accaacaagg ggaatcagcg gttccgtgtt 2700
cactgtgatt tctgttttgt ttacacacag cagattgaat accaacaagg ttgcaacgtt 2760
gcccgtacc ttagcttagc gtgtcagcgg cgcgccacag cagattgaat ttagtaactt ttctatggaa 2820
cacttttgtt gtacaatata tgacacagtg cacattgaat gtatattatc ttcactgttt 2880
tacattatag ccacatcaac agaagtaact gggatatattc ttaaaacatt tgaggtactg aaccacgatg 2940
ctcttcaaaa atgggtcaca ggatggcctt ttcaatatat atcacttcag aagagtgaat aactgatttg 3000
tcacctttta ggttgctaag ttcaatatat atcacttcag aagagtgaat ccaaagtttc 3060
gctgttgagg aattgttctt aaaaggacag actgtgtttg gttacatttt atccctcttg tgctaagcag 3120
cacagctgaa ccttgggga ggctgtgaga gagggcttgt caggcgtttc caagtttcag 3180
attgcattct ccttgggga caatatattc gcagggtaca caccacctg gcttgcatcc 3240
actctactcc ctgcctaacc agatgcgggc agctcttca tttgccacct tcttgtgtat 3300
tgacaccgct cctgctaac cctgattcac ggtgagacat tataggattc tagcaattca taataaatat 3360
cccctccctt atgagatgat attgtacttg tggacattgt atatttgtat tttatgacca 3420
attacttggc gctttactgt cttatgctta ggcaccata aacctgcaga gagaagtctc 3480
agtagaccaa gtcagaaaga tctctctcga

gaaaggctcc	accaaggtac	caagggcagc	tgcttttcc	gtcttttctg	catggggcgac	3540
ccattacagt	atgagataag	attgagttct	gatgcgttaa	acggagggtg	cagaaatttg	3600
tcaagaaggc	cttatccatt	tcgatttgt	gacagattga	aattttattg	ttacattggg	3660
gaatgtatct	caaatTTTTA	aatagaagag	taataaacag	acttttaaagc	aaatatttaag	3720
atttttactc	attcaaggca	agtaaatgaa	tggaattatc	tgagctctat	ggcactgggt	3780
gttttagagt	actgatgaag	tgacaccttc	aaaaacattt	ttgatgccat	caccagccta	3840
ctgcagaagt	gcagggcaca	gtaaacacca	tgtattattg	aagatgatct	gttttctatg	3900
tatccttgct	aaatatattc	tataatggaa	taaaaaatcc	tggaaagtgg	gggtttccct	3960
aa						3962

<210> 283
 <211> 1687
 <212> DNA
 <213> Homo sapiens

<400> 283						
atggatggat	tttatgacca	gcaagtgcct	tacatgggtca	ccaatagtca	gcgtgggaga	60
aattgttaacg	agaaaccaac	aaatgtcagg	aaaagaaaat	tcattaacag	agatctggct	120
catgattcag	aagaactctt	tcaagatcta	agtcaattac	aggaaacatg	gcttgcagaa	180
gctcaggtac	ctgacaatga	tgagcagttt	gtaccagact	atcaggctga	aagtttggct	240
tttcatggcc	tgccactgaa	aatcaagaaa	gaacccacac	gtccatgttc	agaaatcagc	300
tctgcctgca	gtcaagaaca	gccctttaaa	ttcagctatg	gagaaaagtc	cctgtacaat	360
gtcagtgcct	atgatcagaa	cccacaagtg	ggaatgaggg	cctccaaccc	ccccacacca	420
tccagcacgc	cagtgtcccc	actgcatoat	gcattctccaa	actcaactca	tacaccgaaa	480
cctgaccggg	ccttcccagc	tcacctccct	ccatcgcatg	ccataccaga	tagcagctac	540
cccattggacc	acagatttctg	ccgccagctt	tctgaacctt	gtaactcctt	tcctcctttg	600
ccgacgatgc	caagggaagg	acgtcctatg	taccaacgcc	agatgtctga	gccaaacatc	660
cccttcccac	cacaaggctt	taagcaggag	taccacgacc	cagtgtatga	acacaacacc	720
atgggttggca	gtgcggccag	ccaaagcttt	ccccctcctc	tgatgattaa	acaggaaccc	780
agagattttt	catatgactc	agaagtgcct	agctgccact	ccatttatat	gaggcaagaa	840
ggcttctctg	ctcatcccag	cagaacagaa	ggctgtatgt	ttgaaaaggg	cccaggcag	900
ttttatgatg	acacctgtgt	tgtcccagaa	aaattcgatg	gagacatcaa	acaagagcca	960
ggaatgtatc	gggaaggacc	cacataccaa	cggcgaggat	cacttcagct	ctggcagttt	1020
ttggtagctc	ttctggatga	cccttcaaat	tctcatttta	ttgcctggac	tggtcgaggc	1080
atggaattta	aactgattga	gcctgaagag	gtggcccgac	gttggggcat	tcagaaaaac	1140
aggccagcta	tgaactatga	taaaacttagc	gcttcactcc	gctattacta	tgagaaagga	1200
attatgcaaa	aggtggctgg	agagagatat	gtctacaagt	ttgtgtgtga	tccagaagcc	1260
cttttctcca	tggcctttcc	agataatcag	cgtccactgc	tgaagacaga	catggaacgt	1320
cacatcaacg	aggaggacac	agtgcctctt	tctcactttg	atgagagcat	ggcctacatg	1380
ccggaagggg	gctgctgcaa	ccccaccccc	tacaacgaag	gctacgtgta	ttaacacaag	1440
tgacagtcaa	gcagggcgtt	ttttgcgctt	ttcctttttt	ctgcaagata	cagagaattg	1500
ctgaatcttt	gtttttatttc	tggtgttgat	atattttttt	aaataataat	acacaaaaag	1560
gggcttttcc	tggtgcatta	ttctatgggt	tgccatggac	tgtgcacttt	atttgagggt	1620
gggtgggagt	aatctaaaca	tttattctgt	gtaacaggaa	gctaattgggt	gaatgggag	1680
agggatt						1687

<210> 284
 <211> 3787
 <212> DNA
 <213> Homo sapiens

<400> 284						
gcggcgctc	ggcgcgcg	ggtcccttcg	gtggggcg	ggctcccc	ccgcgcgc	60
cgcgcgtcca	ttcgctttgt	gtccgcgc	cggcgggg	ccccgcgc	tctcagccct	120
gcgccccgcg	cccgcgcg	cggctcccg	cggcgccca	gcagcccg	ccggcattgt	180
gtggacgcgc	ccggcgcg	gcgcgcgc	gggcccgtg	gagcgcccc	ggccccgtcc	240
gctccggccg	cggcgccgc	gcccgccgc	cccgccgc	tcgcccgc	gcccccgcc	300
cggccccggc	cgaccgggc	agcgcgag	cggggcgag	ggcgcgcg	caacatggcg	360
acgggtgccc	tgtactgcgt	ctgcccgtg	ccctacgag	ttaccgcgt	tatgatcgag	420
tcgcatgcct	gcaaggactg	gtccacggc	agctgtgtg	gggtggaaga	ggaagaggca	480
ccagacatcg	acattttacca	ctgccgaac	tgcgagaaaa	cccatggcaa	gtccacactc	540
aagaaaaagc	ggacttggca	caaacacggc	cctggggcaa	caccggacgt	gaaaccagt	600
cagaatggca	gtcagctgtt	catcaaggag	ctgcccggag	gaaccttccc	cagtgcgtgaa	660
gacgtgggtg	cccggtgtgc	aggtagccag	ctcaccgtgg	gctacatgga	ggagcatggc	720

ttcactgagc	ccatccttgt	cccccaagaaa	gatggcctgg	gcttagctgt	ccctgcccc	780
acattctacg	tgagtgaagt	cgagaactac	gtggggccgg	aacggagtgt	ggatgtgaca	840
gatgtcacca	agcagaagga	ctgcaagatg	aagctgaagg	agttttgtga	ctattactac	900
agcaccaccc	gcaagcgggt	cctcaacgtc	accaacctcg	agttctctga	caccgcaatg	960
tccagcttcg	tggagccacc	tgacattgta	aagaaactgt	catgggtaga	aaactactgg	1020
ccagatgatg	cattgctggc	caagcccaaa	gtgaccaagt	actgccta	ctgcgtgaa	1080
gacagttaca	ccgacttcca	catcgactct	ggggggcgct	ctgcctggta	ccacgtgctc	1140
aagggggaga	agaccttcta	tctcatcagg	ccggcctcgg	ccaacatctc	cctgtatgag	1200
cgctggcggt	ctgcctctaa	ccacagcgag	atgttctttg	ctgaccaggt	cgacaaatgc	1260
tacaagtga	togtcaagca	gggcccagacc	ctcttccatcc	cctcaggctg	gatctacgcc	1320
acactcacc	ctgtggactg	cctggccttc	gccccacatt	tccctccacag	cctgagtgtg	1380
gagatgcaga	tgagagcata	cgaggtggaa	aggaggttga	aacttggcag	cctgactcag	1440
tttcccaact	ttgaaactgc	gtgctgggtac	atgggaaaagc	acctatttga	ggcgttcaaa	1500
ggttctcaca	agtctgggaa	gcagctgccc	ccacatctag	tccaaggagc	taaaattctc	1560
aatgggtgctt	tccgatcggtg	gacgaagaag	caggcttttg	cagagcatga	ggacgagctc	1620
ccggagcact	tcaaacccttc	acagctaata	aaggacctgg	ccaaagagat	ccggctcagt	1680
gagaatgcct	ccaaagccgt	ccgaccggaa	gtgaataactg	tgcctcgtc	agatgaggtg	1740
tgtgacgggg	accgggagaa	ggaggagccc	ccgtctccca	ttgaggccac	cccgcctcaa	1800
tccctcctgg	agaaagtgtc	caaaaaaaag	actcccaaaa	ctgtgaagat	gccaagcca	1860
tccaaaatcc	ccaagccccc	gaagccccc	aagccccc	ggcccccc	aacgctgaag	1920
ctcaaagatg	gaggcaagaa	gaaaggggaa	aagtcgccgg	agtcagcctc	acccaccatc	1980
cccaaccctg	acctgctcga	agcccacacc	aaggaggcac	tgaccaagat	ggagccgccc	2040
aagaagggca	aggccacaaa	gagtgtcctg	agtgtgccc	acaaagatgt	ggttcacatg	2100
cagaatgatg	tggagaggct	ggaaattcga	gagcaaaaca	agagcaagtc	agaagccaag	2160
tggaaatata	agaacagcaa	acctgactcg	ttactgaaga	tggaggagga	gcagaggctg	2220
gagaagtgcg	ccctgggtcg	gaacaaggac	aagttttctc	tttctttctc	caacagaaaa	2280
ctcctgggct	ccaagccccc	caggccccc	agcagccctg	gtgtgttcgg	cgcttgcag	2340
agcttcaagg	aggacaaggc	caagcccctg	cgcatgagt	atgagtacgt	atcagatgat	2400
ggggagctga	agatagacga	gtttcccatc	aggaggaaga	agagcgcccc	caaaagggac	2460
ttgtccttct	tgtttagacaa	gaaggaggct	ctcctcatgc	ccacctcgaa	gccaagctg	2520
gattctgcgg	tgtataagag	cgatgactcc	tctgacgagg	gctctctgca	catcgacacg	2580
gacaccaagg	caggcagaaa	tgccaaagtg	aagaaggaga	gtgggagctc	cgcgcccgcc	2640
atcctggacc	tgtctcaggc	cagcgaggag	gttggcgcac	tcgagtacaa	ccccaacagc	2700
cagccccctg	cctccccccag	cacacaggaa	gccattcagg	gaatgctctc	catggccaat	2760
ctgcaggcct	ctgactcttg	cctgcagacc	acatggggca	cggggcaggc	caagggtggc	2820
tcactggcag	cccatgggtg	ccggaaagatt	ggtgggtggca	acaaaggcac	aggcaagcgc	2880
ctgctgaaga	ggactgccaa	gaacagtgtg	gatctggagg	actacgagga	gcaggatcac	2940
ctggatgcct	gcttcaaggga	ctcagactat	gtttacccct	cactggagtc	tgacgaagat	3000
aaccccgctc	tcaagtcccc	gtcaaagaag	aggaaaggct	cagacgatgc	tccgtacagc	3060
cccacagcca	gggtcgggtc	atcgggtgcca	agacaagaca	ggcctgtgcg	tgagggggacc	3120
agagtggcct	ccattgagac	ggggctggca	ctgctgcag	ccaagctgtc	ccagcaggag	3180
gagcagaaaa	acaggaagaa	gaagaacacc	aaaagggaagc	cggtcctcaa	cactgcctcc	3240
ccctccatct	ccacctctgc	ctccgctctc	acgggtacca	cctcggcctc	caccacccca	3300
gcattccacca	ccccggcctc	caccacccca	gcattccacca	ccccggcctc	caccagcaca	3360
gccagcagcc	aggcctcaca	ggagggcagc	tcacctgagc	ccccacctga	atcacacagc	3420
agtagcctgg	ctgaccacga	atatacagca	gcccgcacat	tctcggggtc	ccaggctggc	3480
cgtgcctccc	agcccatggc	ccctggagtc	tttctcacac	agaggcgggc	ttctgcatca	3540
tcccccaaca	acactgctgc	caaaggaaaa	cgtacaaaaa	agggcatggc	caccgccaag	3600
caaaggcttg	gaaagatctt	gaagatccat	aggaatggga	aactgctcct	ctaaggcttg	3660
gaaagccagg	atccttctga	tatgctaagg	accccggag	ccccgctaca	tcagcccttc	3720
ccaggacggg	ggctgtgccg	cctggcccg	ggagggttg	cttcattccc	accaattttc	3780
caatcaa						3787

<210> 285
 <211> 3886
 <212> DNA
 <213> Homo sapiens

<400> 285						
aggagagaag	aaattgaaaa	gcaggcactt	gagaagtcta	agagaagctc	taagacgttt	60
aaggaaatgc	tgcaggacag	ggaatcccaa	aatcaaaagt	ctacagtctc	gtcaagaagg	120
agaatgtratt	cttttgatga	tgtgctggag	gaaggaaagc	gaccccttac	aatgactgtg	180
tcagaagcaa	gttaccagag	tgagagagta	gaagagaagg	gagcaactta	tccttcagaa	240
attcccaaaag	aagattctac	cactttttgca	aaaagagagg	accggtgtaa	caactgaaat	300

tcagcttccct	tctcaaagtc	ctgtggaaga	acaaagccca	gcctctttgt	ctctcttgcg	360
ttcacgggagc	acacaaatgg	aatcaacttg	tgtttcagct	tctctcccca	gaagttaccg	420
gaaaactgat	acagtcagggt	taacatctgt	ggtcacacca	agaccctttg	gctctcagac	480
aaggggaaatc	tcatactccc	ccagatctta	cacgatggat	gatgcttgga	agtataatgg	540
agatattgaa	gacattaaga	gaactccaaa	caatgtgggtc	agcacccttg	caccaagccc	600
ggacgcaagc	caactggcctt	caagcttatac	tagccagaaa	gaggtagcag	caacagaaga	660
agatgtgaca	aggctgcccct	ctcctacatc	ccccttctca	tctctttccc	aagaccaggc	720
tgccacttct	aaagccacat	tgtcttccac	atctgggtctt	gatttaaagt	ctgaatctgg	780
agaaggggaa	atctccccac	aaagagaagt	ctcaagatcc	caggatcagt	tcagtatat	840
gagaatcagc	ataaaccaga	cgcttgggaa	gagtccttgac	tttgggttta	caataaaatg	900
ggatattcct	gggatctttcg	tagcatcagt	tgaagcagggt	agcccagcag	aattttctca	960
gctacaagta	gatgatgaaa	ttattgtctat	taacaacacc	aagttttcat	ataacgattc	1020
aaaagagctgg	gaggaagcca	tggctaaggc	tcaagaaact	ggacacctag	tgatggatgt	1080
gagggcgctat	ggaaaaggctg	gttcacctga	aacaaagtgg	attgatgcaa	cttctggaat	1140
ttacaactca	gaaaaatctt	caaactctatc	tgtacaact	gattttctcg	aaagccttca	1200
gagttctaat	attgaatcca	aagaaatcaa	tggaaatcat	gatgaaagca	atgcttttga	1260
atcaaaaagca	tctgaatcca	tttcttttgaa	aaacttaaaa	aggcgatcac	aattttttga	1320
acaaggaagc	tctgattcgg	tggttcctga	tcttccagtt	ccaaccatca	gtgccccgag	1380
tcgctgggtg	tgggatcaag	aggaggagcg	gaagcggcag	gagaggtggc	agaaggagca	1440
ggaccgccta	ctgcaggaaa	aatatcaacg	tgagcaggag	aaactgaggg	aagagtgcca	1500
aagggccaaa	caggaggcag	agagagagaa	ttccaagtac	ttggatgagg	aactgatggt	1560
cctaagctata	aacagcatgt	ctctgaccac	acgggagccc	tctcttgcca	cctgggaagc	1620
tacctggagt	gaagggtcca	agtcttcaga	cagagaagga	acccgagcag	gagaagagga	1680
gaggagacag	ccacaagagg	aagttgttca	tgaggacca	ggaaagaagc	cgcaggatca	1740
gcttgttatt	gagagagaga	ggaatgggga	gcaacagctt	caggaagagc	aagagcaaaa	1800
gcggcttcag	gctgaggtg	aggagcagaa	gcgtcctgcg	gaggagcaga	agcgccaggc	1860
agagatagag	gcggaaaacat	cagtcagaat	ataccagtac	aggaggcctg	ttgattccta	1920
tgatatacca	aagacagaag	aagcatcttc	aggttttctt	cctggtgaca	ggaataaatc	1980
cagatctact	actgaactgg	atgattactc	cacaaataaa	aatggaaaca	ataaatatct	2040
agaccaaatt	gggaacacga	cctcttcaca	gaggagatcc	aagaaagaac	aagtaccatc	2100
aggagcagaa	ttgggagggc	aacaaatcct	tgagaaatg	aggaagagaa	caccccttca	2160
caatgacaac	agctggatcc	gacagcgcag	tgccagtgtc	aacaaagagc	ctgttagtct	2220
tcctgggatac	atgagaagag	gcgaatcttt	agataacctg	gactcccccc	gatccaattc	2280
ttgggagacag	cctccttggc	tcaatcagcc	cacaggattc	tatgcttctt	cctctgtgca	2340
agacttttagc	cgcccaccac	ctcagctggg	gtccacatca	aaocgtgcct	acatgcggaa	2400
ccccctctcc	acgtgcctcc	caccttcagc	tggtctcgtg	aagacctcca	ccacaggtgt	2460
ggccaccaca	cagtcctccc	ccccgagaag	ccattccctt	tcagcttcac	agtcaggctc	2520
tcagctgctg	aacagggtcag	tcagtgggaa	gcgcataatg	tcctactgca	ataacattct	2580
gggcaaaagga	gcccgcctga	tcatacgagtc	cctgggtctt	tggtatcatt	tgcatgtttt	2640
taagtgtgtt	gcctgtgagt	gtgacctcgg	aggctcttcc	tcaggagctg	aagtcaggat	2700
cagaaaccac	caactgtact	gcaacgactg	ctatctcaga	ttcaaatctg	gacggccaac	2760
cgccatgtga	tgtaagcctc	catacgaaag	cactgttgca	gatagaagaa	gaggtgggtg	2820
ctgctcatgt	agatctataa	atatgtgttg	tatgtctttt	ttgctttttt	tttaaaaaaa	2880
agaataaactt	tttttgcttc	tttagattac	atagaagcat	tgtagtcttg	gtagaaccag	2940
tatttttgtt	gtttattttat	aaggtaattg	tgtgtgggga	aaagtgcagt	atttacctgt	3000
tgaattcagc	atcttgagag	cacaagggaa	aaaataagaa	cctacgaata	tttttgaggc	3060
agataatgat	ctagtttgac	tttctagtta	gtgggtgttt	gaagagggtg	ttttattgtt	3120
ttttaaaaaa	aggttctttaa	acattatattg	aaatagttaa	tataaataca	taattgcatt	3180
tgctctgttt	attctaaatt	aatgcagaac	catatggaaa	catatggaaa	atttcattaa	3240
aatctatccc	caaattgtgt	ttctgtatcc	ttccttctac	ctattattct	gattttttaa	3300
aatgcagtta	atgtaccatt	tatttgcttg	atgaaggag	ctctattttc	tttaccagaa	3360
atgttgctaa	gtaattccca	atagaaagct	gcttattttc	attaatgaaa	aataaccatg	3420
gtttgtatac	tagaagtctt	cttcagaaac	tggtgagcct	ttctgttcaa	ttgcatttgt	3480
aaataaaact	gctgatgcac	tttaacgagtg	ggctgtcttt	ttcttaggtg	tatgtgtctg	3540
acctcaggcc	ttttagccat	atttcagtat	gtggcctttt	ttgatgttat	gttttatcca	3600
gtagcttttac	taagggtataa	ttgatgtaat	aaactgcata	tatttaaagt	gtatactttg	3660
acaaattttg	acatgggtga	taccttcgaa	actatgccac	agtctggatg	tgtttactga	3720
aacatttttaa	taagggaagt	tatttttgat	aaagtctatg	ttttggatac	aatatatttg	3780
tatgggtgaga	gtgatgaatt	gttggatcat	ttgaataaaa	tcttttacta	accccatgat	3840
aaaaggagaa	gacaacagtg	agcttagaat	atctataaa	caaaaa		3886

<210> 286
 <211> 3198
 <212> DNA

<213> Homo sapiens

<400> 286

```
aacctgaata tccagggtgga ggacattcgg attcgagcca tcctctcaac ctaccgcaag 60
cgacccccag tgatggaggag ctacgtggag gtgaaggagg gcaagacctg gaagcagatc 120
tgtgacaagc actggacggc caagaattcc cgcgtggtct gcggcatgtt tggcttccct 180
ggggagaggga catacaatac caaagtgtac aaaatgtttg cctcacggag gaagcagcgc 240
tactggccat tctccatgga ctgcaccggc acagagggcc acatctccag ctgcaagctg 300
ggccccagg tgctactgga ccccatgaag aatgtcacct gcgagaatgg gcagccggcc 360
gtggtgagtt gtgtgcctgg gcaggtcttc agccctgacg gaccctcgag attccggaaa 420
gcatacaagc cagagcaacc cctggtgcca ctgagaggcg gtgcctacat cggggaggggc 480
cgcgtggagg tgctcaaaaa tggagagtgg gggaccgtct gcgacgacaa gtgggacctg 540
gtgtcggcca gtgtggtctg cagagagctg ggctttggga gtgccaaaga ggcagtcact 600
ggctcccgac tggggcaagg gatcggaccc atccacctca acgagatcca gtgcacaggc 660
aatgagaagt ccattataga ctgcaagttc aatgccaggt ctcagggctg caaccacgag 720
gaggatgctg gtgtgagatg caacacccct gccatgggct tgcagaagaa gctgcgctg 780
aacggcggcc gcaatcccta cgagggccga gtggagggtg tgggtggagag aaacgggtcc 840
cttgtgtggg gsatggtgtg tggccaaaac tggggcatcg tggaggccat ggtggtctgc 900
cgccagctgg gcctgggatt cgccagcaac gccttccagg agacctggtt ttggcacgga 960
gatgtcaaca gcaacaaagt ggtcatgagt ggagtgaagt gctcgggaac ggagctgtcc 1020
ctggcgcact gccgccacga cggggaggac gtggcctgcc cccagggcgg agtgacgtac 1080
ggggccggag ttgcctgtct agaaaaccgc cctgacctgg tcctcaatgc ggagatggtg 1140
cagcagacca cctacctgga ggaccggccc atgttcatgc tgcagtgtgc catggaggag 1200
aactgcctct cggcctcagc cgcgcagacc gacccacca cgggctaccg ccggctcctg 1260
cgcttctcct cccagatcca caacaatggc cagtccgact tccggcccaa gaacggccgc 1320
cacgcgtgga tctggcacga ctgtcacagg cactaccaca gcatggaggt gttcaccac 1380
tatgaacctg tgaacctcaa tggcaccagg gtggcagagg gccaaaaggc cagcttctgc 1440
ttggaggaca cagaatgtga aggagacatc cagaagaatt acgagtgtgc caacttcggc 1500
gatcagggca tcaccatggg ctgctgggac atgtaccgcc atgacatcga ctgccagtgg 1560
gttgacatca ctgacgtgcc ccctgggac tacctgttcc aggttgttat taaccccaac 1620
ttcgaggttg cagaatccga ttactccaac aacatcatga aatgcaggag ccgctatgac 1680
ggccaccgca tctggatgta caactcccac atagggtggt ccttcagcga agagacggaa 1740
aaaaagtttg agcacttcag cgggctctta aacaaccagc tgtccccgcc agtaaaagag 1800
cctgcgtggt caactcctgt cttcaggcca caccacatct tccatgggac ttctcccaa 1860
caactgagtc tgaacgaatg ccacgtgcc tcacccagcc cggccccccac cctgtccaga 1920
ccctacagc tgtgtctaag ctgaggagga aagggaccct cccatcatc atggggggct 1980
gctacctgac ccttggggcc tgagaaggcc ttgcgggggt ggggtttgtc cacagagctg 2040
ctggagcagc accaagagcc agtcttgacc gggatgaggc ccacagacag gttgtcatca 2100
gcttgtccca ttcaagccac cgagctcacc acagacacag tggagccgcg ctcttctcca 2160
gtgacacgtg gacaaatgcy ggctcatcag cccccccaga gagggtcagg ccgaacccca 2220
tttctcctcc tottacctca ttttcagcaa acttgaatat ctacacctct cttccaatga 2280
aaccctccag tctattatag tcacatagat aatggtgcca cgtgttttct gatattggtg 2340
gctcagactt ggtgcttccc tatccacagc cccacccct tgtttttcaa gatactatta 2400
ttatattttc acagactttt gaagcacaaa tttattggca tttaatattg gacatctggg 2460
cccttggaa taaaaatcta aggaaaaacc aaccactgt gtaagtgact catcttctg 2520
ttgttccaat tctgtgggtt tttgattcaa cgggtgtata accagggtcc tgggtgacag 2580
ggagatacat gagcaccatg tgtcatcaca gacacttaca catacttgaa acttggaaata 2640
aaagaaagat ttatgaaacg tgtctgtgtt tcttttgacc cacagcacct gggccctgag 2700
cagcaggctt cctatgttca gtggccagaa gcagagcttc aggtacatc gtggttttct 2760
ccggtgggac tgggtcctca gatccctcc agccagtgat ggccaccagg gcacctcctt 2820
caatagactc caaaaggggc agctcctacc atctgggaga agcaatctaa ggagatcaca 2880
aaaagtaacg gaacaggagt cataatcttt cttgaactcc tgtggttttt actgaaactt 2940
gtcagaaggc ataggagtgt tgcagggtgt ggtatgggag tctagattta aacagccacc 3000
aggcagctta tcaaagcaag agggcatccg ttacaggac aggggctccc agcaattccc 3060
agtggcagtg gggggtggct ggcccaagcc ccaagtcacc cagacaCagg ggacttcccc 3120
ttgtgtcaac agcatgctag ggcccagcaa actagagggt aggtaggacc accttggcac 3180
caactccact caaaccac 3198
```

<210> 287

<211> 4231

<212> DNA

<213> Homo sapiens

<400> 287

caagataatg	gttttagatt	caggaagact	gaaagaatat	gatgagccgt	atgttttgc	3900
gcaaaataaa	gagagcctat	tttacaagat	ggtgcaacaa	ctgggcaagg	cagaagccgc	3960
tgccctcact	gaaacagcaa	aacaggtata	cttcaaaaaga	aattatccac	atattgggtca	4020
cactgaccac	atggttacaa	acacttccaa	tggacagccc	tcgaccttaa	ctattttcga	4080
gacagcactg	tgaatccaac	caaaatgtca	agtccgttcc	gaaggcattt	tccactagtt	4140
tttggactat	gtaaaccaca	ttgtactttt	ttttactttg	gcaacaaata	tttatacata	4200
caagatgcta	gttcatttga	atattttctcc	c			4231

<210> 288

<211> 4337

<212> DNA

<213> Homo sapiens

<400> 288

ggctgtgaca	ctaatactta	acatgggtgg	tgtgtctctt	tatgcctgac	tcaatcagtt	60
gaaatccaaa	agtaagttct	tccttgat	acctgccaag	acctgagttc	aggccctcag	120
ggtgctgagg	ttttcctttg	tgggagaaaa	tgccaccaga	tggcgggtta	ggattgcagc	180
tccgttgaag	gcgcggcccc	cgctcccgaa	cccccgcgga	ccaccccgta	acaaccccc	240
cacatcgggga	ataacacacc	ggagactttt	ggggggaaac	taggtcgatg	gtcggcggcg	300
ccggatgggc	agctgaggat	tgcccttgag	gttatttttaa	aagttttgag	ttgtacagca	360
cttgattatt	ttgctgcatt	gtgaaaggac	ctctccagca	atgattactt	cagaattacc	420
agtgttacag	gattcaacta	atgaaactac	tgcccatcc	gatgctggca	gcgagcttga	480
agaaacagag	gtcaaaaggaa	aaagaaaaag	gggtcgctct	ggccggcctc	catctacaaa	540
taagaaacct	cgaaaatctc	caggtgagaa	gagcagaatt	gaagctggaa	ttagaggagc	600
aggccgtgga	agagctaatt	gacaccctca	acagaatggg	gaaggggagc	ctgtcacatt	660
atgttgaggtg	gtgaaactgg	ggaaaagtgc	aatgcagttc	gtgggtgatg	actggattga	720
atcatataaa	caagacaggg	acatcgcact	tctggattta	atcaactttt	ttatccagtg	780
ttcaggatgt	cgaggtactg	tgagaataga	gatgtttcga	aatatgcaga	atgcagaaat	840
catcagaaaa	atgactgaag	aatttgatga	ggacagtggg	gattatcctc	ttaccatgcc	900
tggacctcag	tggaaaaaat	ttcgttcaaa	cttttgtgaa	tttattggag	tcctgattcg	960
acagtgtcag	tatagcataa	tttatgatga	gtatatgatg	gacacagtaa	tctccctttt	1020
gacgggtttg	tcagactccc	aggtcagagc	ttttaggcat	acaagtacct	tggctgccat	1080
gaagctcatg	actgctctgg	tgaatgttgc	cttaaaccctc	agtattcatc	aggataatac	1140
ccagagacaa	tatgaagccg	agagaaataa	aatgattggg	aagagagcca	atgaaagggt	1200
ggagttacta	cttcagaaac	gcaaaagagc	gcaagaaaaat	caggatgaaa	tcgaaaaaat	1260
gatgaacctc	attttttaag	gtatatttgt	tcatatgatac	cgtgatgcta	ttgctgagat	1320
tagagccatt	tgatttgaag	aaattggagt	atggatgaaa	atgtatagt	atgccttctt	1380
aaatgacagt	tacctaaaat	atgttggctg	gactcttcat	gacaggcaag	gggaagtccg	1440
gctgaagtgt	ttgaaagctc	tgcaagagct	atataccaat	agagaattat	tccccaatt	1500
ggaactatct	actaacggat	tcaaggatcg	cattgtatca	atgacacttg	ataaagaata	1560
tgatgttctc	gtggaagcta	ttcgattggg	tactctgata	cttcattggaa	gtgaagaagc	1620
tcttttccat	gaaagactgt	aaaatgttta	ccacttgggtg	tactcggcac	atcgccctgt	1680
tgctgtggca	gctggagagt	tccttcacaa	aaagctat	agcagacatg	accacacaagc	1740
agaagaagca	ttagcaaaga	ggagggggaa	aaacagcccg	aatggaaacc	tcattaggat	1800
gctggttctt	ttctttcttg	aaagtgaagt	acatgaacat	gcagcctact	tgggtggacag	1860
tttatgggag	agctctcaag	aactgttgaa	agactgggaa	tgtatgacag	agttgctatt	1920
agaagaacct	gttcaaggag	aggaaagcaat	gtctgatcgt	caagagagt	ctcttataga	1980
gctaattggt	tgtacaattc	gtcaagctgc	tgaggcacat	cctccagtgg	gaaggggtac	2040
cggcaagaga	gtgctaactg	ccaaaagaaag	gaaaaactcaa	attgatgata	gaaacaaatt	2100
gactgaacat	tttattatta	cacttccat	gttatgttca	aagtattctg	cagatgcaga	2160
gaaggtagca	aacttgctac	aaatcccaca	gtattttgat	ttagaaatct	acagcacagg	2220
tagaatggaa	aagcatctgg	atgctttatt	aaaacagatt	aagtttgttg	tggagaaaca	2280
cgtagaatca	gatgttctag	aagcctgcag	taaaacctat	agtatcttat	gcaatgaaga	2340
atataccatc	cagaacagag	ttgacatagc	tcgaagccag	ctgattgatg	agtttgtaga	2400
tcgattcaat	cattctgtgg	aagacctatt	gcaagagggg	gaagaagctg	atgatgatga	2460
catttacaat	gttctttcta	cattaaagcg	gttaacttct	tttcagaatg	cacatgatct	2520
cacaaaaatg	gatctctttg	gtaattgcta	cagattattg	aagactggaa	ttgaacatgg	2580
agccatgcc	gaacagatag	tcgtgcaagc	actgcagtg	tccattatt	cgattctttg	2640
gcagttgggtg	aaaattactg	atggctctcc	ttccaaagag	gatttgttgg	tattgaggaa	2700
aacgggtgaaa	tccttttttg	ctgtttgcca	gcagtgccctg	tctaattgta	atactccagt	2760
gaaagaacag	gctttcatgt	tactctgtga	cttctctgatg	attttcagcc	accaattaat	2820
gacaggtggc	agagagggcc	ttcagccttt	gggtgttcaat	ccagatactg	gactccaatc	2880
tgaactcctc	agttttgtga	tggatcacgt	ttttattgac	caagacgagg	agaaccagag	2940
catggagggg	gatgaagaag	atgaagctaa	taaaattgag	gccttacata	aaagaaggaa	3000

tctacttgct	gctttcagca	aacttatcat	ttatgacatt	gttgacatgc	atgcagctgc	3060
agacatcttc	aaacactaca	tgaagtatta	caatgactat	ggtgatatta	ttaaggaaac	3120
actgagtaaa	accaggcaga	ttgataaaat	tcagtggtgc	aagactctca	ttctcagttt	3180
gcaacagtta	tttaatgaac	ttgttcaaga	gcaagggtccc	aacctagata	ggacatctgc	3240
ccatgtcagt	ggcattaaag	aactggcacg	tcgctttgcc	cttacatttg	gattggacca	3300
gattaaagaca	cgagaagcag	ttgccacact	tcacaaggat	ggcatagagt	ttgcatttaa	3360
ataccaaaat	cagaaaggac	aagagtatcc	acctccta	ctggcttttc	ttgaagtact	3420
aagtgaattt	tcttctaaac	ttcttcgaca	ggacaaaaag	acagttcatt	catacctaga	3480
gaaatttcctt	accgagcaga	tgatgggaaag	gagggaggat	gtatggcttc	cactcatctc	3540
ctatagaaat	tcattagtca	ctgggggtga	agatgataga	atgtctgtga	acagtgggaag	3600
tagcagcagc	aaaacctcat	cagtaaggaa	taagaaaagg	cgacctccac	ttcataaaaa	3660
acgagtagaa	gatgagagtc	tggataaac	atggctaaac	aggactgaca	ccatgattca	3720
gactcctggc	cccctgccag	caccacaact	cacatccact	gtactgcggg	agaacagtcg	3780
gcccattggga	gaccagattc	aagaacctga	gtctgaacat	ggttctgaac	cagacttttt	3840
acacaatcct	cagatgcaga	tctcttggtt	agggcagccg	aagttagaag	acttaaatcg	3900
gaaggacaga	acaggaatga	actacatgaa	agtgaagaact	ggagtgaagg	atgctgttcg	3960
gggtctaattg	gaggaagatg	ctgagcccat	ctttgaagat	gtgatgatgt	catcccgaag	4020
ccagttagaa	gatatgaatg	aagaatttga	ggacaccatg	gttattgatc	tgccctccatc	4080
aagaaatcgg	cgagagagag	ctgagctaag	gccagacttc	tttgactctg	cagctatcat	4140
agaagatgat	tcaggattttg	gaatgcctat	gttctgaagt	ctgaagaaaa	tttacaatac	4200
tggaaactcta	ttattttagag	ctagaggcct	atatactgtg	atagcttgta	tggggaaaaa	4260
caacttttga	tgtgatctga	tttgtttttt	aatcaaatga	ttaagggtcaa	tcctctttttg	4320
cagtgacaga	agaggag					4337

<210> 289
 <211> 1090
 <212> DNA
 <213> Homo sapiens

gctccgggag	acttccggca	ggggggggcg	gggggtcttg	cgaacgggtct	tcggaagcgg	60
cgccggcgcg	atgaccacgc	tacgggcctt	tacctgcgac	gacctgttcc	gcttcaacaa	120
cattaacttg	gatccactta	cagaaactta	tgggattcct	ttctacctac	aatacctcgc	180
ccactggcca	gagtatttca	ttgttgcaga	ggcacctggt	ggagaattaa	tgggttatat	240
tatgggtaaa	gcagaaggct	cagtagctag	ggaagaatgg	cacgggcacg	tcacagctct	300
gtctgttgcc	ccagaatttc	gacgccttgg	tttggctgct	aaacttatgg	agtactacta	360
ggagatttca	gaaagaaaag	gtggattttt	tgtggatctc	tttghtaagag	tatctaacca	420
agttgcagtt	aacatgtaca	agcagttggg	ctacagtgtg	tataggacgg	tcataagagta	480
ctattcggcc	agcaacgggg	agcctgatga	ggacgcttat	gatatgagga	aagcactttc	540
cagggatact	gagaagaaat	ccatcatacc	attacctcat	cctgtgaggc	ctgaagacat	600
tgaataaccc	tgggcagtg	ttcttaggca	gatactctag	atgctttatg	gacaatatta	660
ttttcattgg	atgattctgg	agctctatta	ggagaaaagt	aatcatctta	ggtcttaaa	720
acttcaagaa	aatacaggtt	atcaatttat	tttaaatctc	attgtttcca	gttagcaata	780
tcatacctat	taaagctggt	cattgtaaca	aaattcaatc	aaaaaggcag	ctagggtcaga	840
aggaaacata	ccactctcat	ggttcatagt	attcactgta	tgtatgctag	ggaaaagact	900
tgctccagtc	tcctcctcag	ttctgtgcct	gagaaccact	gctgcatata	tttgttttta	960
aattttgtat	tgaactgtta	attgaagctt	taaaagcata	tatgaaatgt	ataaatctaa	1020
gatgtataat	acattattga	ctctaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	1080
aaaaaaaaaa						1090

<210> 290
 <211> 2150
 <212> DNA
 <213> Homo sapiens

ctcgagccac	gaaggccccc	ctgtcctgtc	tagcagatac	ttgcacgggt	tacagaaatt	60
cggtcctctgg	gtcgtgtcag	gaaactggaa	aaaagggtcat	aagcatgaag	cgcagttcag	120
tttccagcgg	tgggtgctggc	cgctcttcca	tgcaggagtt	aagatcccag	gatgtaaaata	180
aacaaggcct	ctataccctt	caaaccaaag	agaaaccaac	ctttggaaaag	ttgagtataa	240
acaaaccgac	atctgaaaga	aaagtctcgc	tatttggcaa	agaactagt	ggacatggat	300
cccggaaatag	tcaacttgg	atattttcca	gttctgagaa	aatcaaggac	ccgagaccac	360
ttaatgacaa	agcattcatt	cagcagtgtg	ttcgacaact	ctgtgagttt	cttacagaaa	420
atggttatgc	acataatgtg	tccatgaaat	ctctacaagc	tcctctctgt	aaagacttcc	480

tgaagatcctt	cacatttctt	tatggcttcc	tgtgcccctc	atacgaactt	cctgacacaa	540
agtttgaaga	agaggttcca	agaatcttta	aagaccttgg	gtatcctctt	gcactatcca	600
aaagctccat	gtacacagtg	ggggctcctc	atacatggcc	tcacattgtg	gcagccttag	660
tttggctaata	agactgcatc	aagatacata	ctgccatgaa	agaaaagctca	cctttattttg	720
atgatgggca	gccttgggga	gaagaaactg	aagatggaat	tatgcataat	aagttgtttt	780
tggactacac	cataaaatgc	tatgagagtt	ttatgagtgg	tgccgacagc	tttgatgaga	840
tgaatgcaga	gctgcagtca	aaactgaagg	atatttttaa	tgtggatgct	tttaagctgg	900
aatcattaga	agcaaaaaac	agagcattga	atgaacagat	tgcaagattg	gaacaagaaa	960
gagaaaaaga	accgaatcgt	ctagagtctg	tgagaaaact	gaaggcttcc	ttacaaggag	1020
atgtttcaaaa	gtatcaggca	tacatgagca	atttggagtc	tcattcagcc	attcttgacc	1080
agaaattaaa	tggctctcaat	gaggaaattg	ctagagtaga	actagaaagt	gaaacaataa	1140
aacaggagaa	cactcgacta	cagaatatca	ttgacaacca	gaagtactca	gttgacagaca	1200
ttgagcggaat	aaatcatgaa	agaaatgaat	tgacagagac	tattaataaa	ttaaccaagg	1260
acctggaagc	tgaacaacag	aagttgttga	atgaggagtt	aaaatatgcc	agaggcaaaag	1320
aagcgattga	aacacaatta	gcagagtatc	acaaattggc	tagaaaaatta	aaactttatc	1380
ctaaagggtgc	tgagaattcc	aaagggttatg	actttgaaat	taagtttaat	cccagggtctg	1440
gtgcccaactg	ccttgtcaaaa	tacagggtctc	aagttttatgt	acctcttaag	gaactcctga	1500
atgaaactga	agaagaaatt	aataaaagccc	tataataaaaa	aatgggtttg	gaggataactt	1560
tagaacaatt	gaatgcaatg	ataacagaaa	gcaagagaag	tgtgagaact	ctgaaagaag	1620
aagttcaaaa	gctgggatgt	ctttaccaac	aaaaaattaa	ggaagcagag	gaagaggatg	1680
aaaaatgtgc	cagtgagctt	gagtccttgg	agaaacacaa	gcacctgcta	gaaagtagctg	1740
tttaaccaggg	gctcagtgaa	gctatgaatg	aattagatgc	tgttcagcgg	gaataccaac	1800
tagtttgtgca	aaccacgact	gaagaaagac	gaaaagtggg	aaataacttg	caacgtctgt	1860
tagagatggg	tgctacacat	gttgggtctg	tagagaaaca	ctctgaggag	cagatttgcta	1920
aagttgatag	agaatatgaa	gagtgcatgt	cagaagatct	ctcggaataa	attaaagaga	1980
ttagagataa	gtatgagaag	aaagctactc	taattaagtc	ttctgaagaa	tgaagataaa	2040
atgttgatca	tgtatatata	tccatagtga	ataaaattgt	ctcagtaaaa	aaaaaaaaaa	2100
aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa		2150

<210> 291
 <211> 3800
 <212> DNA
 <213> Homo sapiens

<400> 291						
gtcggaggca	gagggcggcg	cggcaggcgg	ggagcaagag	gcccaggcga	ctgcggcggc	60
tggggaagga	gacaatgggc	cgggcctgca	gggcccattc	cgggagccac	cgctggccga	120
caacttgtac	gacgaagacg	acgacgacga	ggcgaggag	gaggaagagg	cggcggcggc	180
ggcgattggg	taccgagata	accttctgtt	cgggtgatgaa	attatcacta	atgggttttca	240
ttcctgtgaa	agtgatgagg	aggatagagc	ctcacatgca	agctctagtg	actggactcc	300
aaggccacgg	ataggtccat	atacttttgt	tcagcaacat	cttatgattg	gcacagatcc	360
tccaacaatt	cttaagattt	tattgccgga	aacaataacct	ccacctgagt	tggatgatat	420
gacactgttg	cagatttgta	ttaatatcct	ttcagaacca	ccaaaaagga	aaaaaagaaa	480
agatatatta	acaattgaag	atgccgtgaa	attactgcaa	gagtgcaaaa	aaattatagt	540
tctaactgga	gctgggggtg	ctgtttcatg	tggaaatacct	gacttcagggt	caaggggatgg	600
tattttatgt	cgcttctgtg	tagacttccc	agatcttcca	gatcctcaag	cgatgtttga	660
tattgaatat	ttcagaaaaa	atccaagacc	attcttcaag	tttgcaaagg	aaatatatcc	720
tggacaattc	cagccatctc	tctgtcacaa	attcatagcc	ttgtcagata	aggaaggaaa	780
actacttcgc	aactataccc	agaacataga	cacgctggaa	caggttgcgg	gaatccaaag	840
gataattcag	tgtcatgggt	cctttgcaac	agcatcttgc	ctgattttgt	aatacaaaag	900
tgactgtgaa	gctgtacgag	gagatatttt	taatcaggta	gttcctcgat	gtcctagggtg	960
cccagctgat	gaaccgcttg	ctatcatgaa	accagagatt	gtgttttttg	gtgaaaattt	1020
cccagaacag	tttcatagag	ccatgaagta	tgacaaagat	gaagttgacc	tcctcattgt	1080
tattgggtct	tcctcacaag	taagaccagt	agcactaatt	ccaagttcca	taccccatga	1140
agtgcctcag	atattaatta	atagagaacc	tttgcctcat	ctgcattttg	atgtagagct	1200
ccttggagac	tgtgatctga	taattaatga	attgtgtcat	aggttaggtg	gtgaatatgc	1260
caacttttgc	tgtaaccttc	taaagctttc	agaaattact	gaaaaacctc	cacgaacaca	1320
aaaagaattg	gcttattttg	cagagttgcc	acccacacct	cttcatgttt	cagaagactc	1380
aagttcacca	gaaagaactt	caccaccaga	ttcttcagtg	attgtcacac	tttttagacca	1440
agcagctaag	agtaatgatg	atthagatgt	gtctgaatca	aaaggttgta	tggaaagaaa	1500
accacaggaa	gtacaaaact	ctaggaatgt	tgaaagtatt	gctgaacaga	tggaaaatcc	1560
ggatttggaag	aatgttgggt	ctagtactgg	ggagaaaaat	gaaagaactt	cagtggctgg	1620
aacagtgaga	aaatgctggc	ctaataagagt	ggcaaggag	cagattagta	ggcggcttga	1680
tggtaatcag	tatctgtttt	tgccacccaa	tcgttacatt	ttccatggcg	ctgagggtata	1740

ttcagactct	gaagatgacg	tcttatcctc	tagttcttgt	ggcagtaaca	gtgatagtgg	1800
gacatgccag	agtccaagtt	tagaagaacc	catggaggat	gaaagtgaaa	ttgaagaatt	1860
ctacaatggc	ttagaagatg	agcctgatgt	tccagagaga	gctggaggag	ctggatttgg	1920
gactgatgga	gatgatcaag	aggcaattaa	tgaagctata	tctgtgaaac	aggaagtaac	1980
agacatgaac	tatccatcaa	acaaatcata	gtgtaataat	tgtgcaggta	caggaattgt	2040
tccaccagca	ttaggaactt	tagcatgtca	aaatgaatgt	ttacttga	actcgataga	2100
gcaaggaaac	cagaaagggtg	taatatattat	aggttggtaa	aatagattgt	ttttcatgga	2160
taatttttaa	cttcattatt	tctgtacttg	tacaaactca	acactaactt	tttttttttt	2220
aaaaaaaaaa	aggtactaag	tatcttcaat	cagctgttgg	gtcaagacta	actttctttt	2280
aaagggttcat	ttgtatgata	aattcatatg	tgtatatata	attttttttg	ttttgtctag	2340
tgagtttcaa	catttttttaa	gttttcaaaa	agccatcgga	atgttaaatt	aatgtaaagg	2400
gacagctaatt	ctagacccaaa	gaatgggtatt	ttcacttttc	tttgtaacat	tgaatgggtt	2460
gaagtactca	aaatctgttta	cgctaaaactt	tttgtaacat	aacacaaacta	tttttaaaaa	2520
ctgggcatttt	ccaaaaactgt	ggcagctaac	tttttaaaaat	ctcaaatgac	atgcagtgtg	2580
agtagaagga	agtcaacaat	atgtggggag	agcactcggt	tgtctttact	tttaaaagta	2640
atacttgggtg	ctaagaatttt	caggattatt	gtattttacgt	tcaaatgaag	atggcttttg	2700
tactttcctgt	ggacatgtag	taatgtctat	attggctcat	aaaactaacc	tgaaaaaaca	2760
ataaatgctt	tggaaatggtt	tcagtttgctt	tagaaacatt	agtgcctggc	tggatccctt	2820
tagttttgaa	atattttgcca	ttgtttgttta	aatacctatc	actgtggtag	agcttgcatt	2880
gatctttttcc	acaagtatta	aactgccaaa	atgtgaatat	gcaaaagcctt	tctgaatcta	2940
taataatgggt	acttctactg	gggagagtgt	aatattttgg	actgctgttt	tccattaatg	3000
aggagagcaa	caggccctgtg	attatacagt	tccaaagtaa	taagatgcta	attgtaatcc	3060
agccagaaaag	tacatgtctc	ccatttgggag	gatttgggtg	taaataccaa	actgctagcc	3120
ctagtatttat	ggagatgaac	atgatgatgt	aacttgtaat	agcagaatag	ttaatgaatg	3180
aaactagtctc	ttataatttta	tctttatttta	aaagcttagc	ctgccttaaa	actagagatc	3240
aactttctca	gctgcaaaaag	cttctagtct	ttcaagaagt	tcatacttta	tgaaattgca	3300
cagtaagcat	ttattttttca	gaccattttt	gaacatcact	cctaaattaa	ttaaagtattc	3360
ctctgttgct	ttagtatttta	ttacaataaaa	aagggtttga	aatatagctg	ttcttttatgc	3420
ataaaaacacc	cagctaggac	cattactgcc	agagaaaaaa	atcgtaattg	atggccatttt	3480
ccctacttat	aagatgtctc	aatctgaatt	tatttggcta	cactaaagaa	tgcagtatat	3540
ttagttttcc	atttgcacatg	tgtttgggtg	ctatagatga	tatttttaaat	tgaaaagttt	3600
gttttaaaatt	attttttacag	tgaagactgt	tttcagctct	ttttataattg	tacatagctt	3660
tttatgtaat	ttacttggcat	atgttttgta	gactgtttta	tgactggata	tcttccttca	3720
acttttgaaa	tacaaaaacca	gtgtttttta	cttgtacact	gttttaaaagt	ctattaaaaat	3780
tgtcatttga	ctttttttctg					3800

<210> 292
 <211> 1731
 <212> DNA
 <213> Homo sapiens

<400> 292						
gggggaggct	gtgatggggtt	gacaggtgog	tgacagtggg	agctgctctc	ggcacaagca	60
tgtacggcaa	aggcaagagt	aacagcagcg	cogtcccgtc	cgacagccag	gccccgggaga	120
agtttagcact	ctacgtatat	gaatatctgc	tccatgtagg	agctcagaaa	tcagctcaaaa	180
cattttttatc	agagataaga	tgggaaaaaaa	acatcacatt	gggggaacca	ccaggatttct	240
tacattctttg	gtggtgtgta	ttttggggatc	tctactgtgc	agctccagag	agacgtgaaa	300
catgtgaaca	ctcaagtga	gcaaaaagcct	tccatgatta	cagtgcctgca	gcagctccca	360
gtccagtgc	aggaaacatt	cccccaggag	atggcatgcc	agtaggtcct	gtaccaccag	420
ggttcttttca	gcctttttatg	tcacctcggt	accctggagg	tccaaggccc	ccattgagga	480
tacctaatca	ggcacttgga	ggtgtcccag	gaagtccagc	attactcccc	agaggaatgg	540
atccaactcg	acaacaagga	catccaaata	tgggtggggc	aatgcagaga	atgactcctc	600
caagaggaat	ggtgccctta	ggaccacaga	actatggagg	tgcaatgaga	ccccactga	660
atgcttttagg	tggcccttga	atgcttggaa	tgaacatggg	tccaggtggg	ggtagacctt	720
ggccaaacccc	aacaaatgcc	aattcaatac	catactctc	agcatctcct	gggaattatg	780
taggtcctcc	aggaggtgga	gggcccaccag	gaacaaccat	catgcctagt	ccagcagatt	840
caaccaactc	tggtgataaac	atgtatactt	taatgaatgc	agtacctcct	ggaccttaaca	900
gacctaat	tccaatgggc	cctgggtcag	atggtcccat	gggtggatta	ggaggaatgg	960
agtcacatca	catgaatggc	tcttttaggct	caggagatat	ggacagtatt	tccaagaatt	1020
ctcccaataa	tatgagcctg	agtaatcaac	cgggcactcc	aagggatgat	ggcgaaatgg	1080
ggggaaatttt	cttaaatcct	tttcagagt	agagttactc	ccctagcatg	acaatgagcg	1140
tgtgatccat	taccaagtct	cctcatgaaa	accacagtga	gtcagccctt	cacagaacta	1200
ctacggaaga	aaattattca	tcacagtgt	cagttaaaca	aaggaatctc	agtcacacca	1260
aaccaacctt	ttcattttcct	gctctctccc	ctcttttggg	aagaaagcgg	gtccagatgt	1320

gattcaaaaca	actgtacgga	gtggcatatt	agaattgccc	taaactgaac	tgcaaataat	1380
tatgtgtgta	tgtatatgtg	tgggaaagag	aatgtactgt	atatgtgtat	gttatacaga	1440
catatacaca	tacatacatt	gaccacaggg	acattgtaaa	atattatcac	atgacatctt	1500
aagtagaaat	aagtagggac	ttttattcca	tccttttttt	cacgtttaca	ttttaattat	1560
tacaagttgc	tcctgcccc	tccttgaact	atgttgtgct	gtgtatatca	ctgctttata	1620
taagttatct	tttaagggtga	actcagatgt	tatgggttttg	tatatgtctg	caatcatgga	1680
taggaataaa	atcgcttatt	tgagagcttt	caaaaaaaaa	aaaaaaaaaa	c	1731

<210> 293
 <211> 3416
 <212> DNA
 <213> Homo sapiens

<400> 293						
ggtttacacg	tacctccgcc	tcacgttgga	ccaccatggg	actgcccagc	tccaggccct	60
gagacagaag	gaagtagact	tctgcatctc	actgcttcgg	gaacgggtca	tggaaatgtc	120
gatgattggg	cggtatctcg	taagactact	tcagaatgtt	gctaggatac	cagaatttga	180
actgctttgg	aaagatatta	tcacataatcc	tcaggcccttg	agtcctcagt	tcacagggtat	240
cctacagctt	cttcagtcac	gaacatcccg	aaaattccta	gcattgtctc	taaccccgga	300
ctggagagct	aaactcctct	tcattgacatc	ccgggtgcga	tttggtcaac	aaaagcgata	360
ccaagattgg	ttccagcgcc	agtagctgtc	aactccagat	agtcagtctc	tgcgctgtga	420
cctcattcgc	tacatctgtg	gggtagtcca	cccttctaata	gaagtactga	gttcagatat	480
cttgcctccg	tgggcatca	ttgggtgggt	cctgacaacg	tgacagtcac	atgtcgtctc	540
ctccaatgcc	aagctggctt	tggtttatga	ctggctgttc	tttagtccag	acaaggatag	600
cattatgaac	atagaaccag	ccatcctggg	catgaccac	tccatgaagc	cccaccagc	660
catcactgcc	acactcctgg	acttcattgt	ccgcattcatt	cccaacttct	atccaccatt	720
ggagggccac	gtgcggcagg	gtgtcttttt	ctccctcaac	cacattgtgg	agaaacgggt	780
cttggtgtgt	aaaaagtatt	ggctctacct	cagactgctg	ggcatatgtc	ttcttggctc	840
ttagaggaat	ttctctcctg	ccatcgctatt	acaaagacac	ctagctcccc	tggttgacaa	900
ccctaagttg	gataaggagc	tgccggcaat	gctgagagag	aagtttctct	agttctgcag	960
ctcaccctcc	ccacctgtgg	aagtcacaaat	tgaggagcca	gtttccatgg	agatggacaa	1020
ccatattgtc	gataaggatg	agagtttgct	tgacaatgca	gaggcagcct	tcagtgcaga	1080
tgaagaggat	ctcaacagca	aagggaagaa	gagggagttt	cgcttccacc	ctatcaagga	1140
gacagttgtg	gaggagccag	ttgatatac	cccttacctt	gaccagttgg	atgagtcctt	1200
gagggacaaa	gtactccagc	tacagaaggg	gagtgatacg	gaggcccagt	gtgaggtcat	1260
gcaggaaatt	gtggaccagg	tcctggaggga	agactttgac	tcggagcagc	tgctctgctt	1320
tgtctcctgc	ctacaggagc	tcttcaaggc	ccactttcga	ggggagggtc	tgccctgagga	1380
gattactgag	gagtcctctg	aggagtctgt	aggaaaagcct	ctgtacctaa	tatttaggaa	1440
cctatgtcag	atgcaggaag	acaacagcag	cttctctcta	cttctagacc	ttctctccga	1500
gctatatcag	aagcagccca	agattggcta	ccacctgtct	tactacctga	gggccagcaa	1560
agccgcccga	gggaagatga	acctgtacga	gtcatttgcc	caggctaccc	agctggggcga	1620
tctgcacacc	tgccatgatg	tggacatgaa	ggcctgccag	gaggacgatg	tgccgctcct	1680
gtgccacctc	acgccctcca	tctacacaga	gtttccagat	gaaaccttga	ggagcggaga	1740
gctgctgaac	atgatcgtgg	ctgttattga	ctctgcacag	ctccaggagc	tggtctgcca	1800
cgtgatgatg	ggtaacctgg	ttatgtttcg	aaaagactca	gttctcaaca	tactcattca	1860
gagcctagac	tgggagacct	ttgagcagta	ttgtgcctgg	cagctctttc	tggcccacaa	1920
tattccctcg	gagaccataa	tccccatcct	gcagcacctc	aaatacaagg	agcaccacga	1980
ggcctctgtc	tgccactact	ttcaactccg	aagagaaaag	cccagcgagg	agatggtgaa	2040
gatgggtgct	agccggccct	gccatcctga	cgaccagttc	accaccagca	tcctgcggca	2100
ctgggtgcag	aaacatgacg	agctgctggc	cgagcacatc	aagtcctctg	tcacaaagaa	2160
caacagcctg	cctcgcaaga	gacagagcct	gaggagctct	agcagcaagc	tggcccagct	2220
gactctggag	cagatcctgg	agcacttgga	caatctgcgg	ctcaacctga	ccaacaccaa	2280
gcagaacttt	tttagccaga	cgccaattct	ccaggcgtcg	cagcatgtcc	aagcgagctg	2340
tgacgaagcc	cacaagatga	aattcagtg	tctctctctc	ctggcggagg	aatatgagga	2400
ctcttccacc	aagccaccca	agagccggcg	aaaagcagct	ctgtccagcc	ctcgaagtcg	2460
aaagaatgcc	acacagcccc	ccaatgccga	agaagagtcg	ggctccagca	gtgcttcaga	2520
agaggaagac	acgaaccgga	agcctaccaa	gcggaaacga	aaagggctct	ctgcagtggg	2580
ctctgacagt	gactgaggcc	ctgcattccc	catccacccc	ccggctggac	tgccctctcc	2640
ttcttgggtg	ttcaaagggt	aatagaggct	gaggagattg	caggggaaac	acccttgctg	2700
catccccaag	ttccccgggt	ggaaggagga	gctttctcct	ctggctgagt	ttgagaagct	2760
gccatgcagc	ccctagcccc	ttccctctct	ctggggcctc	cagccctcca	cactgctgtt	2820
cccagtgata	tttgggatct	gactgaagcc	agaggctctg	taaaatcaga	ccatagtggg	2880
agtcctcagc	cccttgggcc	cttccgcaat	ctctctcccc	agtcctccaa	agagccattt	2940
caacagagaa	gggaaatgac	aaagggggcag	ctggccagat	aagctaggat	gagagcagag	3000

actcagtgtg	tgggtgtccc	ttcctgcttc	cccttcaggt	cttggttctg	tctgaaggga	3060
cgttttatag	tcactatcca	catgccagtg	tgaatggggc	atctatgacg	tggtcagggt	3120
gtccattcct	aatcatgggg	cagatgccac	aagcattcag	aaaggagctc	gaaagggtgg	3180
ccacagcccc	acgtggtgtg	ccctggaggg	ttaggttggg	ctgagggtgg	cacctcaatc	3240
tacaccagag	cccagggagt	cccagaggca	agtttcacag	aattgtcaaa	tgatcccat	3300
tccttgagtc	tgtttttttt	ttttgttttt	ttttgttttt	tttttggcag	agataatcgt	3360
gtcttaaaaag	ttgtttttta	atgacaataa	aacaagccag	aatgtcaaaa	aaaaaa	3416

<210> 294
 <211> 1927
 <212> DNA
 <213> Homo sapiens

<400> 294						
gtaaaaccagc	cggagcgggc	cggcagcggc	aggaccgccg	tggcgccctag	agtagcgacc	60
cgggggggagc	gcggggcgac	gctggctgca	gggaccgggt	gacagcgtga	gagggttcgca	120
gagtactagg	ttttgacaag	cttgcatcat	gcgtgagtat	aagctagtcg	ttcttggctc	180
aggaggcggt	ggaaagtctg	ctttgactgt	acaatttgtt	caaggaattt	ttgtagaaaa	240
atacgatcct	acgatagaag	attcttatag	aaagcaagtt	gaagtagatg	cacaacagtg	300
tatgcttgaa	atcttggata	ctgcaggaac	ggagcaattt	acagcaatga	gggattttata	360
catgaaaaat	ggacaaggat	ttgcattagt	ttattccatc	acagcacagt	ccacatttaa	420
cgattttacaa	gacctgagag	aacagattct	tcgagttaaa	gacactgatg	atgttccaat	480
gattcttgtt	ggtaataagt	gtgacttgga	agatgaaaga	gttgtaggga	aggaacaagg	540
tcaaaatcta	gcaagacaat	ggaacaactg	tgcattctta	gaatcttctg	caaaatcaaa	600
aataaatgtt	aatgagatct	tttatgacct	agtgcggcaa	attaacagaa	aaactccagt	660
gcctgggaag	gctcgcaaaa	agtcacatg	tcagctgctt	taatatacta	aatgcattgt	720
agctctgagc	caggctctgaa	gaactgttgc	ccaattcaac	agtgccagca	ttccaacttt	780
gttaaaacct	ccaacatctt	aaatggactt	tcctgtgggt	gtacccttta	agaggcggat	840
gaaagctact	atatcagttt	gcacattcta	atcactttcc	agtatcacia	gagagatttt	900
tacttatata	atagtcctag	agttttgcagc	tggtaaaacc	agaggctaca	tccagtatta	960
ctgctaagag	acattcttca	tccaccaatg	ttgtacatgt	atgaaaatgg	tgtactgtat	1020
actttaacat	gccccatact	ttgtattgga	gagtacaata	atgtaaatcc	taaaagcacc	1080
actattttag	cataataaaaa	gaaagtccaa	agagctccta	tatagactac	tccagataac	1140
ttcgcttctt	tgatacttgt	agcttattgt	aatttttttt	aagaaatcca	aggtcattat	1200
tattgtacaa	aataagcgct	ttgattaaca	cagctatata	gtttttttta	tttttaaaaa	1260
acctgtggag	acgggtgatct	tgtcttttaa	acatgatagt	cctttcagta	taatgtctta	1320
gattaaagac	gttgcccttta	atatctgttg	ggaaggaaat	gtccagactt	ttcaaacttc	1380
ttatttatatg	tttccctttt	ttgtttacat	agggacaacat	gttttatagtc	gtgtgtacag	1440
tgggggtcta	caacaagaag	tgtatatatt	caaacaattt	tttaattgatt	taacaatttt	1500
tgtaaatcat	tttcaggctt	ctgcagctgt	agattctcac	tgtgaatccc	ttgcttgctc	1560
atgcataagt	gtatttgcac	taccaaatat	acaggtttag	tattttttgoc	tgttagtgat	1620
tgtttcacat	gtgtaacggt	ttggttgaga	tgttaaatgg	tggacgagta	ctgtggatgt	1680
gaatgtggga	agtaatttta	atcatatgta	atttggtcac	aggcctaatt	tgcagtaact	1740
attgctgttt	tatttaacaa	tgcttgtgtg	ctttgtatgc	attaatgttt	ggatgtaaag	1800
attgtgtgtc	tatccaacag	ggagccacag	tatttaaat	gaccaacct	atgtttacaac	1860
tactttgagg	tggccaaatg	taaactaaaa	gccttaatta	aagtgggtgca	atttttgtaaa	1920
aaaaaaa						1927

<210> 295
 <211> 1453
 <212> DNA
 <213> Homo sapiens

<400> 295						
ggctgttggc	ggcggttggc	tggcgcgggg	agtgggtgct	acgtgcgggc	ggggggcgatg	60
cgtaactgat	cggaggaacg	agaatgaata	tgactcaagc	ccgggttctg	gtggctgcag	120
tgggtgggggt	ggtggtgtgc	ctgctctacg	cctccatcca	caagattgag	gagggccatc	180
tggctgtgta	ctacagggga	ggagctttac	taactagccc	cagtggacca	ggctatcata	240
tcattgttgc	tttcattact	acgttcagat	ctgtgcagac	aacactacaa	actgatgaag	300
ttaaaaatgt	gccttgtgga	acaagtgggt	gggtcatgat	ctatatgtac	cgaatagaag	360
tgggttaatat	gttggtctct	tatgcagtg	ttgatatcgt	gaggaactat	actgcagatt	420
atgacaagac	cttaatcttc	aataaaatcc	accatgagct	gaaccagttc	tgcagtgccc	480
acacacttca	ggaagtttac	attgaattgt	ttgatcaaat	agatgaaaac	ctgaagcaag	540
ctctgcagaa	agacttaaac	ctcatggccc	caggctctcac	tatacaggct	gtgcgtgtta	600

caaaacccaa	aatcccagaa	gccataagaa	gaaatthttga	gttaatggag	gctgagaaga	660
caaaactcct	tatagctgca	cagaaacaaa	aggttggtgga	aaaagaagct	gagacagaga	720
ggaaaaaggg	agttatagaa	gcagagaaga	ttgcacaagt	ggcaaaaatt	cggtttcagc	780
agaaagtgat	ggaaaaagaa	actgaaaagc	gcattttctga	aatcgaagat	gctgcattcc	840
tggcccgaga	gaaagcgaaa	gcagatgctg	aatattatgc	tgacacacaaa	tatgccacct	900
caaacaagca	caagttgacc	ccggaatatc	tggagctcaa	aaagtaccag	gccattgctt	960
ctaacagtaa	gatctatttt	ggcagcaaca	tccctaacat	gttcgtggac	tcctcatgtg	1020
ctttgaaata	ttcagataatt	aggactggaa	gagaaaagctc	actccccctc	aaggaggctc	1080
ttgaaccctc	tggagagaaac	gtcatccaaa	acaaagagag	cacagggtga	tgcaagaggt	1140
ggaaatgttc	tccatatcaa	gatgtggccc	aaggggttaa	gtgggaacaa	tcattatacg	1200
gactcttcag	atthtacagag	aacttacact	tcattctgttc	cacctctcct	gcgatagtcc	1260
tgggtgctcc	actgatttga	ggatagagcc	agctgtctga	cacacaaatg	gtctttttcag	1320
ccacagtctt	atcaagtatc	ctatatgtat	tcctttctaa	actgctactc	atgaatgagg	1380
aaagtctgat	gctaagatac	tgccctgcact	ggaatgttaa	acactaaata	tataacaagc	1440
tgtgttttctg	taa					1453

<210> 296
 <211> 3120
 <212> DNA
 <213> Homo sapiens

<400> 296						
ccgcagaggg	ccgggggctac	ggggcagccc	cgggcgatga	ggggcggggc	ttgaccggga	60
agagcgggca	ccgcggcagt	ggctccgagg	ggaccgcgga	tggcagcgcc	ctgagaggag	120
gctccaggga	gggcccggctg	cgctggcagc	ggccgctgag	gtgctggcgg	gccggctggc	180
tggcgacggg	ggcagaagcg	acgagaggcg	cgctcgccac	ccgcaccccc	gtgcccccg	240
ctcagttgtc	taaaacttcgg	gctctcttcc	accgtctgcg	cgcccagagt	caacaacttc	300
ttcaccccc	tccgcccccg	cccttccctc	cgctcagccc	gggagctcgc	cgcgggcccg	360
ggaccaggaa	cctccagcgc	tgagatgtgg	ccgtgaggcg	ttggcggggc	ccgaggagaa	420
gctcggcgcc	gtcccggggc	cggaaggccg	tggggccggg	gcgcaggggc	gcgagcacc	480
cgcgcccttc	ccccgcctcc	tcctgccgtc	tcgcgcgctg	cccgtgcctt	gcaagcagca	540
gcccggagctg	ccaagcgtca	gggcccggga	gatgtcgtcg	tcgtcgccgc	cgcggggggc	600
tgccagcgcc	goccatctcg	cctcggagaa	agtggacggc	ttcacccgga	aatcggtccg	660
caaggcgcag	aggcagaagc	gctcccaggg	ctcgtcgag	tttcgcagcc	agggcagcca	720
ggcagagctg	cacccgctgc	cccagctcaa	agatgccact	tcaaatgaac	aacaagagct	780
tttctgtcag	aagttgcagc	agtgttgtat	actgtttgat	ttcatggact	ctgtttcaga	840
cttgaagagc	aaagaaaatta	aaagagcaac	actgaatgaa	ctggttgagt	atgtttcaac	900
taatcgtggg	gtaattgttg	aatcagcgta	ttctgatata	gtaaaaatga	tcagtgcata	960
catcttccgt	acacttctct	caagtataaa	tccagatttt	gatccagaag	aggatgaacc	1020
cacgcttgag	gcctcttggc	ctcacataca	gttggtatat	gaattcttct	tgagattttt	1080
ggagagccct	gattttccagc	ctagcattgc	aaaacgatac	attgatcaga	aattcgtaca	1140
acagctcctg	gagcttttttg	atagtgaaga	tcccagagaa	cgtgacttcc	tgaagactgt	1200
tctgcaccga	atttatggga	aatttcttgg	attaagagca	ttcatcagaa	aacaaattaa	1260
caacattttc	ctcaggttta	tatatgaac	agaacatttc	aatgggtgtg	ctgaacttct	1320
tgaaaatatta	ggaagtatta	tcaatggctt	tgcattgcca	ctgaaagcag	aacataaaca	1380
atthtctaag	aaggttctta	ttcctatgca	tactgcaaaa	ggattagctt	tgthttcatgc	1440
tcagctagca	tattgtgttg	tacagtctct	ggagaaagat	acaacactaa	cagagccagt	1500
gatcagagga	ctgctgaaat	tttggccaaa	aacctgcagt	cagaaaagagg	tgatgttttt	1560
aggagaaatt	gaagaaatct	tagatgtcat	tgaaccaaca	cagttcaaaa	aaattgaaga	1620
gccacttttc	aagcagatat	ccaagtgtgt	atccagttct	catttttcagg	ttgcagaaaag	1680
ggcattgtac	ttctggaata	acgaatatat	tcttagtttg	attgaggaga	acattgataa	1740
aattctgcca	attatgtttg	ccagtttgtta	caaaatttcc	aaagaacact	ggaatccgac	1800
cattgtagca	ctggtataca	atgtgctgaa	aacctaatg	gaaatgaatg	gcaagctttt	1860
cgatgacctt	actagctcat	acaaaagctga	aagacagaga	gagaaaaaga	aggaattgga	1920
acgtgaagaa	ttatggaaaa	aattagagga	gctaaagcta	aagaaaagctc	tagaaaaaca	1980
gaatagtgtc	tacaacatgc	acagtattct	cagcaatata	agtgccgaat	aaaaaaaaag	2040
cctcccacct	ctgccggata	ggcagagttt	ttagtgcctt	tttgaaatat	gtaaaaatta	2100
caaaaacaa	ctcatcagta	taatatcaat	aaaaggccaa	ttttttctgg	caactgtaaa	2160
tggaaaaata	tatggactaa	acgtagccct	gtgctgtatc	atggccatag	tatatgttaa	2220
cctttgtcta	atcattggat	ttattgtgtc	acttctgaag	tttcacagaa	atgaatgaat	2280
tttatcatct	atgatattgag	tgagataatt	atgggagtg	taagaattat	gacttgaatt	2340
cttctttgat	tgtgttcgac	atagatatgg	tgttctgtct	tgatatattt	tcctttttat	2400
aatgtgcttt	tcacactgct	gcaaaccttg	ttgtacatcct	aggaaaaaat	acttctctaaa	2460
ataaaaactaa	ggtatcatcc	ttacccttct	ctttgtctca	cccagaaata	tgatgggggg	2520

aattacctgc	cctaaccctt	ccctcaataa	atacattact	gtactctgga	atthaggcaa	2580
aaccttaaat	ctccaggctt	tttaaaagcac	aaaatataaa	taaaagctgg	gaaagttaaac	2640
caaaattctt	cagattgttc	ctcatgaata	tcccccttcc	tctgcaattc	tccagagtgg	2700
taacagatgg	gtagaggcag	ctcagggtgaa	ttaccagct	tgccctctcaa	ttcatctctc	2760
ctcttctctt	caaagggtga	aggcagggcc	tttccagctc	tcacaacctg	tccttcaact	2820
agtcctctct	gacccagggg	tggaggcttt	gagtcoccaca	gtgtgggtgat	acagagcact	2880
agttgtcact	gcctggcttt	atttaaaagga	actgcagtag	gcttcctctg	tagagctctg	2940
aaaagggttga	ctatatagag	gtcttgrtatg	tttttacttg	gtcaagtatt	tctcacatct	3000
tttggttatca	gagtaccatt	ccaatctctt	aacttgagct	tgtgtggaaa	actgttttgt	3060
aatgaaagat	cttcattggg	ggattgagca	gcatttaata	aagtctatgt	ttgtattttg	3120

<210> 297
 <211> 1759
 <212> DNA
 <213> Homo sapiens

<400> 297						
cagccgttga	ggggacgggc	ctgcgtttct	tcctccttcc	tccccgcctc	cagctgccgg	60
caggaccttt	ctctcgctgc	cgctgggacc	ccgtgtcatc	gcccaggctg	agcacgatgc	120
cccctaaaaa	gggaggtgat	ggaattcaaac	cacccccaat	cattggaaga	tttggaacct	180
cactgaaaaat	tggtattgtt	ggattgccaa	atgttgggaa	atctactttc	ttcaatgtgt	240
taaccaatag	tcaggcttca	gcagaaaact	tcccgctctg	cactattgat	cctaatagaga	300
gcagagtacc	tgtgccagat	gaaagggtttg	actttctttg	tcaataccac	aaaccagcaa	360
gcaaaattcc	tgccctttcta	aatgtgggtg	atatgtctgg	ccttgtgaaa	ggagctcaca	420
atggggcaggg	cctgggggaat	gcttttttat	ctcatattag	tgccctgtgat	ggcatctttc	480
atctaacacg	tgcttttgaa	gatgatgata	tcacgcacgt	tgaagggaagt	gtagatccta	540
ttcgagatat	agaaataata	catgaagagc	ttcagcttaa	agatgaggaa	atgattggggc	600
ccattataga	taaactagaa	aagggtggctg	tgagaggagg	agataaaaaa	ctaaaaacctg	660
aatatgatat	aatgtgcaaa	gtaaaatcct	gggttataga	tcaaaaagaaa	cctgttccgt	720
tctatcatga	ttggaatgac	aaagagattg	aagtgttgaa	taaacacctta	tttttgactt	780
caaaaccaat	ggtctacttg	gttaatcttt	ctgaaaaaga	ctacattaga	aagaaaaaca	840
aatgggttgat	aaaaattaaa	gagtggtggg	acaagtatga	cccagggtgct	ttgggtcattc	900
ctttttagtgg	ggccttgga	ctcaagttgc	aagaattgag	tgctgaggag	agacagaagt	960
atctgggaagc	gaacatgaca	caaagtgtct	tgccaaagat	cattaaggct	gggtttgcag	1020
cactccaact	agaatacttt	ttcactgcag	gcccagatga	agtgcgtgca	tggaccatca	1080
ggaaaggggac	taaggctcct	caggctgcag	gaaagattca	cacagatttt	gaaaagggat	1140
tcattatggc	tgaagtaatg	aaatacgaag	attttaaaaga	ggaagggttct	gaaaatgcag	1200
tcaaggctgc	tggaaaagtac	agacaacaag	gcagaaaatta	tattgttgaa	gatggagata	1260
ttatctttct	caaattttaac	acacctcaac	aaccgaagaa	gaaataaaat	ttagttattg	1320
ctcagataaa	catacaactt	ccaaaaggca	tctgattttt	aaaaaattaa	aattttctgaa	1380
aaccaattgcg	acaaataaag	ttggggagat	gggaatcttt	gacaaaacaaa	ttattttttat	1440
ttgtttttaa	attaaaaatac	tgtgtacccc	cccccccca	tgaaatgcag	gttcactaaa	1500
tgtgaacagc	tttgcttttc	acgtgattaa	gacctactc	caaattgtag	aagcttttca	1560
ggaaccatat	tactctcatg	atacttcatt	aatctccatc	atgratgccca	agcctgacac	1620
atttgacagt	gaggacaatg	tggcttgctc	ctttttgaat	ctacagataa	tgcattgttt	1680
acagtactcc	agatgtctac	actcaataaa	acatttgaca	aaaccaaaaa	aaaaaaaaaa	1740
aaaaaaaaaa	aaaaaaaaaa					1759

<210> 298
 <211> 2374
 <212> DNA
 <213> Homo sapiens

<400> 298						
gtcatgcagt	gcgcgggaga	actgtgctct	ttgaggccga	cgctaggggc	ccggaaggaa	60
actgcgaggc	gaaggtgacc	ggggaccgag	catttcagat	ctgctcggtc	gacctgggtgc	120
accaccacca	tggttgctgc	aaggctgggtg	tgtctccgga	cactaccttc	taggggtttc	180
caccacagctt	tcaccaaggc	ctccccgtgt	gtgaagaatt	ccatcacgaa	gaatcaatgg	240
ctgttaaacac	ctagcagggg	atatgccacc	aaaacaagaa	ttgggatccg	gcgtggggaga	300
actggccaag	aactcaaaga	ggcagcattg	gaaccatcga	tggaaaaaat	atttaaaatt	360
gatcagatgg	gaagatgggt	tgttgctgga	ggggctgctg	ttggtcttgg	agcattgtgc	420
tactatggct	tgggactgtc	taatgagatt	ggagctattg	aaaaggctgt	aattttggct	480
cagtatgtca	aggatagaat	tcattccacc	tatatgtact	tagcagggag	tattgggttta	540
acagctttgt	ctgccatagc	aatcagcaga	acgcctgttc	tcattgaactt	catgatgaga	600

ggctcttggg	tgacaattgg	tgtgaccttt	gcagccatgg	ttggagctgg	aatgctggta	660
cgatcaatac	catatgacca	gagcccaggc	ccaaagcatc	ttgcttgggt	gctacattct	720
ggtgtgatgg	gtgcagtggt	ggctcctctg	acaatattag	ggggctcctc	tctcatcaga	780
gctgcatggt	acacagctgg	cattgtggga	ggcctctcca	ctgtggccat	gtgtgcgccc	840
agtgaagaat	ttctgaacat	gggtgcaccc	ctgggagtg	gcctgggtct	cgctcttctg	900
tcctcattgg	gatctatgtt	tcttccacct	accaccgtgg	ctgggtgccac	tctttactca	960
gtggcaatgt	acggtggatt	agttcttttc	agcatgttcc	ttctgtatga	taccagaaa	1020
gtatcaagcg	tgcagaagta	tcaccaatgt	atggagttca	aaaatatgat	cccattaact	1080
cgatgctgag	tatctacatg	gatacattaa	atataattat	gcgagttgca	actatgctgg	1140
caactggagg	caacagaaa	aaatgaagtg	actcagcttc	tggcttctct	gctacatcaa	1200
atatcttgtt	taatggggca	gatatgcatt	aaatagtttg	tacaagcagc	tttcgttgaa	1260
gtttagaaga	taagaaacat	gtcatcatat	ttaaatgttc	cggtaatgtg	atgcctcagg	1320
tctgcctttt	tttctggaga	ataaatgcag	taatcctctc	ccaaataagc	acacacattt	1380
tcaattctca	tgtttgagtg	attttaaaat	gttttgggtg	atgtgaaaac	taaagtttgt	1440
gtcatgagaa	tgttaagtctt	ttttctactt	taaaatttag	taggttcaact	gagtaactaa	1500
aattttagcaa	acctgtgttt	gcataattttt	ttggagtgca	gaatattgtg	attaatgtca	1560
taagtgtatt	ggagcttttg	taaagggacc	agagagaagg	agtcacctgc	agtcttttgt	1620
ttttttaaat	acttagaact	tagcacttgt	gttattgatt	agtgaggagc	cagtaagaaa	1680
catctgggta	tttggaaaca	agtggctcatt	gttacattca	tctgctgaac	tttaacaaaac	1740
gttctatcct	gaacacaggca	cagggtatgc	attctcctgc	tgttgctctc	cagtgtctctc	1800
tttccaatat	agatgtgggtc	atgtttgact	tgtacagaat	gttaatcata	cagagaatcc	1860
ttgatggaat	tatatatgtg	tgttttactt	ttgaatgtta	caaaaggaaa	taacttttaa	1920
actattctca	agagaaaaata	ttcaaagcat	gaaatatgtt	gctttttcca	gaatacaaac	1980
agtatactca	tgaatttgcta	agttgtttttt	tattttttgca	tattttattga	actgtctaat	2040
tgaatacagc	ttgctcttgt	cacctcttca	agctttcaag	ccttttataga	aaagcttctt	2100
tgtggcttac	actggaaatt	atgaaagcag	tttttctcct	aagacttttg	gtttctcgca	2160
ttgcctctca	gactaagcac	taaaaagcaa	agcaaaacag	aactagtctt	gtcttaatga	2220
aatatatcaa	cccaaaagtg	taatgaggaa	aatgcttcat	tagtttcccc	tagcagactt	2280
ttacttctct	tacactgcta	caccattact	ttcttgagac	atttgtaagt	cctttgatac	2340
agaagagtta	tatttaggag	gctttaatga	aggg			2374

<210> 299

<211> 5112

<212> DNA

<213> Homo sapiens

<400> 299

gtagctgggg	tgaggccgctc	gtcgccgcac	gggctggttg	gggctgtgtc	tgtgggaggc	60
gcccgggtga	tggcggtgga	gactctgtcc	cgggactggg	agtttgaccg	cggtgacgac	120
ggctcgcaga	aaattcatgc	cgaagtccaa	cttaagaatt	atgggaaatt	tcttgaggag	180
tatacctctc	aactgagaag	aattgaggac	gctctggatg	actcaattgg	agatgttttg	240
gatttcaatc	ttgatcctat	agcattaaag	cttttgcttt	atgaacagtc	ctctcttttg	300
gaactcataa	tgaactgaaa	caaggcttta	aacaaaagtca	tcaactgttta	tgtctgactt	360
tgttgtgaaa	tcaagaaatt	aaaatatgag	gctgaaacta	aatttttacaa	tgggtctcttg	420
ttttatggag	aaggagctac	agatgccagc	atgggtggaag	gtgattgccca	aattcaaattg	480
gggagattta	tttcattctt	acaggaaactg	tcttgctttg	ttacgaggtg	ctatgaagtg	540
gtgatgaacg	tagtccacca	gttggctgcc	ctctatatca	gtaacaagat	tgcacccaaa	600
attatagaga	caactggagt	tcatttttcag	actatgtatg	agcacttggg	agaactgcta	660
acagttttgc	tcacccctgga	tgaattattt	gataatcata	tcacactgaa	agaccactgg	720
actatgtaca	aaaggttact	gaaatctgtc	catcacaaatc	cttcaaaatt	tggaaattcag	780
gaagaaaaat	taaagccatt	tgaaaaagttc	ttgctgaagc	tagaagggca	attactggat	840
ggaatgatat	tccaggcctg	tatagaacaa	caatttgatt	ctctcaatgg	aggagtatct	900
gtgtcaaaaa	atagtacttt	tgctgaggaa	tttgcacata	gtattcggctc	aattttttgca	960
aatgtagaag	ccaaacttgg	agaaccttct	gaaattgacc	agagagacaa	gtatgtttgga	1020
atttgtggac	tctttgtatt	gcacttttcag	attttttcgaa	ctattgataa	aaagttttat	1080
aagtctttat	tggacatttg	taagaaggta	ccagccatca	ctctaactgc	taataattatt	1140
tggtttcctg	ataattttct	gatccagaaa	ataccagcag	ctgccaaaact	gctagacaga	1200
aaaaagtcttc	aagccatttaa	aatacacagg	gatacttttc	tacaacagaa	agctcaatca	1260
cttaccaaaag	atgtacagtc	ttactacgtc	tttgtgagct	catggatgat	gaaaaatggaa	1320
tctattttgt	ctaaagagca	gagaatggat	aaatttgcgt	aagatctcac	caatagatgt	1380
aatgttttta	tacagggtct	cttgtatgca	tatagtatta	gtaccattat	taaaaaccaca	1440
atgaatctct	acatgtccat	gcaaaaagcca	atgacaaaaa	cctcagttaa	ggcattgtgc	1500
aggcttgttg	aactttctcaa	ggcaatatag	catatgttct	acaggagaag	catgggtgtg	1560
gctgattcag	tttcacatat	aacacagcac	cttcaacatc	aggctcttca	ttctattttct	1620

gtggccaaga	aaagagtgat	ttctgacaaa	aaatacagcg	aacagcgtct	tgatgtgctc	1680
tctgctctag	ttttggctga	aaacactcta	aatggaccaaa	gcacaaagca	acggcgactt	1740
attgtttctt	tggcactaag	tgttggcaca	caaatgaaaa	catttaaaga	tgaagaaactc	1800
tttccacttc	aagtagtcat	gaaaaaactg	gatcttatta	gtgaacttag	agaacgagtc	1860
caaacacaaat	gtgactgttg	ttttttatatac	tggcatcgag	ctgtctctccc	aattttattta	1920
gatgatgtat	atgaaaaatgc	tgttgatgca	gccagattac	attacatgtt	cagtgccttg	1980
cgcgactgtg	tacctgctat	gatgcatgca	aggcatttag	agtcctatga	gatacttctg	2040
gatttgcctatg	acaaggaaaat	tatggaaaatt	ttaaatgagc	atgttgcctgga	caaatttatgc	2100
aaagaaaatag	agaaagatct	gcgactttct	gtgcatactc	atttaaagct	ggatgacoga	2160
aacccttttca	aagttggcat	gaaagacctg	gctctttttt	tctctctgaa	tccaattcgg	2220
tttttcaatc	gtttcattga	cattcgggct	tacgtaactc	actacctaga	caagactttc	2280
tacaatctaa	caactgtagc	ccttcatgac	tgggcccactt	atagtgaat	gagaaactta	2340
gctactcagc	gttatggact	ggttatgaca	gaggcacatc	ttcccagtca	gactttggaa	2400
cagggccttg	atgtttttaga	aattatgaga	aacattcata	tattttgtgtc	ccgatacctc	2460
tataatctca	acaatcagat	ttttattgaa	cgaacaagca	ataacaagca	tttgaatact	2520
attaatattc	ggcatattgc	taattcaatt	cgaacacatg	gcacgggaat	tatgaataca	2580
actgttaatt	tcacctacca	gtttttgaaa	aagaagttct	atataattag	ccaatttatg	2640
tatgatgaac	acatcaaatc	cagattgatt	aaagatattc	gatttttctag	ggaaattaaag	2700
gacaaaaatg	atcataagta	tccttttgat	agagcagaaa	aattcaatcg	aggcatcaga	2760
aaactttggaa	taacacctga	gggacagagc	taccttgatc	aattcaggca	actcatcagc	2820
cagatttggt	atgctatggg	ctatgtacga	atgataagat	ctgggtggct	tcattgtagc	2880
agcaatgcc	ttagatttgt	tcctgatctt	gaagatattg	taaaatttga	agaactagta	2940
aaagaagaag	gtcttgcaga	agaaacatta	aaagcagcaa	ggcattttgga	ttcagtcctc	3000
agtgatcaca	cacgaaattc	tgccgaaggc	acagaatatt	tcaaaatgct	tgtagacgtt	3060
tttgctccag	aatttctgaag	gccaaagaat	atacatctcc	gaaatttcta	tataattgtt	3120
ccccctctga	ccttcaactt	tgtagagcat	tccattagtt	gcaaggaaaa	attaaataaa	3180
aaaaataaaa	ttggagctgc	ccttactgat	gatggctttg	ccatgggtgt	ggcttacatt	3240
ctaaagcttt	tggatcagta	tcgggagttt	gattcacttc	actgggtcca	gtctgttaga	3300
gagaaataacc	tgaaggagat	aagagcagtt	gctaagcaac	agaatgtaca	gtcagccagt	3360
caagatgaaa	aactcttaca	aaccatgaat	ctcactcaga	agcgactgga	tgtctatcta	3420
caggaaattg	aattgctgta	tttctcactg	agcagtgcga	gaattttctt	cagagcagac	3480
aagactgcgg	ctgaagaaaa	ccaagaaaaag	aaagagaagg	aagaagaaac	taaaaacaagc	3540
aatggagacc	tgtctgacag	cactgtgtct	gctgatcctg	ttgtgaaatg	atacggatgg	3600
tattcactgc	acatatgatg	aaatcctcag	aattgttaaa	acttttgcca	gtggaatgga	3660
taaactattg	atgaattgtt	tcctgggtca	catctctgga	aaatagatgt	tacagttctt	3720
aaaggcagtg	ctttaaagtg	aagttcattc	tgtttccaaa	ggctctactt	tcaagggtta	3780
agaatgagat	tttaaaaattg	gatttttgcc	tggacttgag	ggtacaagat	gtttctattt	3840
gaagtgaagt	tataaaaagg	caaatccaga	ttcataaact	atcacctcgg	atttcttgta	3900
atctacatgt	ttgtaatttg	tatttgcata	gatctttgat	ctatagttat	ttcaagtcac	3960
gggaaattca	atgcatatac	tatatacagc	cagtaaatac	atgcttaaca	aaagggaatga	4020
gcctgaagtt	cataaagaat	acatatcaat	attctttataa	aagggaatata	tgaagatggc	4080
tttgataact	gaggtgaggg	acaagtgttt	tatgtactct	cagtgtacag	tataactgat	4140
gatccttctt	tcatttggtaa	tttcatgtga	ctcacaaagag	ctgctgatgt	ccttgatgag	4200
acattttata	actagttttac	attgctttga	gaacatttta	cctccaacag	ctgctttaaa	4260
tttaagattt	acttaatact	cagaaaaattc	agataaaagcc	atagagtcct	gtttgaagct	4320
tcacttctat	tttggttgaa	ggcatgatgt	atgatgtcag	aaaaaaaaatt	gaatgaatta	4380
tttctacatc	caaaactcagg	tttcttctac	attagattga	attgaaaattt	tggatgaggt	4440
ttgggtagac	tttttttttta	tatcaagtat	aattttaaaac	atcagattca	ataattacac	4500
tgttcagggt	tttaaaaaaaa	taccactgtg	agaataaaagc	gctagtaaga	tacatcactt	4560
actgatttta	aaaatacaga	aagattttga	gtaaaattttg	tgcccagcaa	gctgttagtt	4620
ttatttttgt	aaaggttatgt	aagttattaa	atggtttaatc	atggcctttt	aaaaataaaa	4680
taaagtgata	ccttttacaat	gaagacaaaa	gttttaaaact	ttctaataca	aacaccattt	4740
tgggaaatgc	ttgattttttt	tctattgcat	ttgtctgcta	aacattttctt	tggataaatc	4800
ctgcaaatatc	ttctaacatt	attctttgat	tccagctttt	agaatgggtg	tacaatgccc	4860
tgttttgtat	taatgggttag	ggtcagggtg	acttgccagc	ccaagataaa	tacttttaac	4920
gttaaaaagtc	agaagagaca	gaatatgtag	gaaatgtttt	ttgtttatta	tgtaaaacatg	4980
gcttacagaa	ttatgaacag	gggatagatt	aaaggcattt	aatattttgta	attcataata	5040
actgtagaaa	tggccctaaa	gcattgctgca	taattaataa	tttatatttt	cattattata	5100
agtgtttata	tt					5112

<210> 300
 <211> 4834
 <212> DNA
 <213> Homo sapiens

<400> 300

gatgtggagc	tgggggtccct	gcaagtcacg	aacaaaacga	gaaagattat	ggaacatggg	60
ggggccacct	tcatacaatgc	ctttgtgact	acaccccatgt	gctgcccgtc	acgggtccctcc	120
atgctcaccg	ggaagtatgt	gcacaatcac	aatgtctaca	ccaacaacga	gaactgctct	180
tccccctcgt	ggcaggccat	gcatgagcct	cggacttttg	ctgtatatct	taacaacact	240
ggctacagaa	cagccttttt	tggaaaatac	ctcaatgaat	ataatggcag	ctacatcccc	300
cctgggtggc	gagaatggct	tggattaatc	aagaattctc	gcttctataa	ttacactggt	360
tgtcgcaatg	gcatcaaaga	aaagcatgga	tttgattatg	caaaggacta	cttcacagac	420
ttaatcacta	acgagagcat	taattacttc	aaaatgtcta	agagaatgta	tccccatagg	480
cccgttatga	tgggtgatcag	ccacgctgcg	ccccacggcc	cggaggactc	agccccacag	540
ttttctaaac	tgtaccccaa	tgcttcccaa	cacataactc	ctagttataa	ctatgcacca	600
aatatggata	aacactggat	tatgcagtac	acaggaccaa	tgctgcccac	ccacatggaa	660
tttacaacaa	ttctacagcg	caaaaaggctc	cagactttga	tgtcagtggg	tgattctgtg	720
gagaggctgt	ataaacatgc	cgtggagacg	ggggagctgg	agaatactta	catcattttac	780
accgccgacc	atggttacca	tattgggcag	tttggactgg	tcaaggggaa	atccatgcca	840
tatgactttg	atattcgtgt	gccttttttt	attcgtggtc	caagtgtaga	accaggatca	900
atagtcaccac	agatcgttct	caacattgac	ttggccccc	cgatcctgga	tattgctggg	960
ctcgacacac	ctcctgatgt	ggacggcgaag	tctgtcctca	aacttctgga	cccagaaaag	1020
ccaggtaaca	ggtttcgaac	aaacaagaag	gocaaaattt	ggcgtgatac	attcctagt	1080
gaaagaggca	aattttctacg	taagaaggaa	gaatccagca	agaatatcca	acagtcaaat	1140
cacttgccca	aatatgaacg	ggtcaaagaa	ctatgccagc	aggccaggta	ccagacagcc	1200
tgtgaacaac	cggggcagaa	gtggcaatgc	attgaggata	catctggcaa	gcttcgaatt	1260
cagaagtgtg	aaggacccag	tgacctgctc	acagtcgggc	agagcacgcg	gaacctctac	1320
gctcgcggt	tccatgacaa	agacaaagag	tgcagttgta	gggagtctgg	ttaccgtgcc	1380
agcagaagcc	aaagaaagag	tcaacggcaa	ttcttgagaa	accaggggac	tccaaagtac	1440
aagcccagat	ttgtccatcac	tccgcagaca	cgttccttgt	ccgtcgaatt	tgaagggtgaa	1500
atatatgaca	taaattctgga	agaagaagaa	gaattgcaag	tgttgcaacc	aagaaacatt	1560
gctaagcgct	atgatgaagg	ccacaagggg	ccaagagatc	tccaggcttc	cagtgggtggc	1620
aacaggggca	ggatgctggc	agatagcagc	aacgcgctgg	gcccacctac	cactgtccga	1680
gtgacacaca	agtgttttat	tcttcccaat	gactctatcc	attgtgagag	agaactgtac	1740
caatcgccca	gagcgtggaa	ggaccataag	gcatacattg	acaaagagat	tgaagctctg	1800
caagataaaa	ttaagaattt	aagagaagtg	agaggacatc	tgaagagaag	gaagcctgag	1860
gaatgtagct	gcagtaaaaca	aagctattac	aataaaagaga	aagggtgtaa	aaagcaagag	1920
aaattaaaga	gccatcttca	cccatccaag	gaggctgctc	aggaagttaga	tagcaaacctg	1980
caacttttca	aggagaacaa	ccgtaggagg	aagaaggaga	ggaaggagaa	gagacggcag	2040
aggaaggggg	aagagtgcag	cctgcctggc	ctcacttgct	tcacgcagta	caacaaccac	2100
tggcagacag	ccccgttctg	gaacctggga	tctttctgtg	cttgcacgag	ttctaacaat	2160
aacacctact	ggtgttttgcg	tacagttaat	gagacgcata	attttctttt	ctgtgagttt	2220
gctactggct	ttttggagta	ttttgatatg	aatacagatc	cttatcagct	cacaaataca	2280
gtgcacacgg	tagaacgagg	cattttgaa	cagctacacg	tacaactaat	ggagctcaga	2340
agctgtcaag	gatataagca	gtgcaaccaa	agacctaaaga	atcttgatgt	tggaaaataaa	2400
gatggaggaa	gctatgacct	acacagagga	cagttatggg	atggatggga	agggttaatca	2460
gccccgtctc	actgcagaca	tcaactggca	aggcctagag	gagctacaca	gtgtgaatga	2520
aaacatctat	gagtacagac	aaaactacag	acttagtctg	gtggactgga	ctaattactt	2580
gaaggattta	gatagagtat	ttgcactgct	gaagagtcac	tatgagcaaa	ataaaaacaaa	2640
taagactcaa	actgctcaaa	gtgacgggtt	cttgggtgtc	tctgctgagc	acgctgtgtc	2700
aatggagatg	gcctctgctg	actcagatga	agacccaagg	cataaggttg	ggaaaacacc	2760
tcatttgacc	ttgccagctg	accttcaaac	cctgcatttg	aaccgaccaa	catttaagtc	2820
agagagtaaa	cttgaatgga	ataacgacat	tccagaagtt	aatcatttga	attctgaaca	2880
ctgggaaaaa	accgaaaaaat	ggacggggca	tgaagagact	aatcatctgg	aaaccgattt	2940
cagtggcgat	ggcatgacag	agctagagct	cggggccagc	cccaggctgc	agcccattcg	3000
caggcacccg	aaagaacttc	cccagtatgg	tggctcctgga	aaggacattt	ttgaagatca	3060
actatatctt	cctgtgcatt	ccgatggaa	ttcagttcat	cagatgttca	ccatggccac	3120
cgcagaacac	cgaagtaatt	ccagcatagc	ggggaagatg	ttgaccaagg	tggagaagaa	3180
tcacgaaaaag	gagaagtaoc	agcacctaga	agggcagcgc	tcctcttcac	tctcctctga	3240
ttagatgaaa	ctgttacctt	accctaaaca	cagtatttct	ttttaacttt	tttatttgta	3300
aactaataaa	ggtaatacaca	gccaccaaca	ttccaagcta	ccttgggtac	ctttgtgcag	3360
tagaagctag	tgagcatgtg	agcaagcggg	gtgcacacgg	agactcatcg	ttataattta	3420
ctatctgcca	agagttagaaa	gaaaggctgg	ggatatttgg	gttggcttgg	ttttgatttt	3480
ttgcttgttt	gtttgtttttg	tactaaaaaca	gtattatctt	ttgaatatcg	tagggacata	3540
agtatatata	tgttatccaa	tcaagatggc	tagaatgggtg	cctttctgag	tgtotaaaac	3600
ttgacacccc	tggttaaattc	ttcaacacac	ttccactgcc	tgcgtaatga	agttttgatt	3660
catttttaac	cactggaatt	tttcaatgcc	gtcattttca	gttagatgat	tttgcacttt	3720
gagattaaaa	tgccatgtct	atttgattag	tcttattttt	ttattttttac	aggcttatca	3780

gtctcactgt	tggctgtcat	tgtgacaaa	tcaaataaac	ccccaaggac	gacacacagt	3840
atggatcaca	tattgtttga	cattaagctt	ttgccagaaa	atgtttgcag	tgttttacct	3900
cgacttgcta	aaatcgatta	gcagaaaagg	atggctaata	atgtttgggtg	tgaaaaataa	3960
taaataagta	aacaaaatga	agattgcctg	ctctctctgt	gcctagcctc	aaagcggtta	4020
tcatacatca	tacctttaag	attgctatat	tttgggttat	ttcttgaca	ggagaaaaag	4080
atctaaagat	cttttatttt	catctttttt	ggttttcttg	gcatgactaa	gaagcttaaa	4140
tgttgataaa	atatgactag	ttttgaattt	acaccaagaa	cttctcaata	aaagaaaaatc	4200
atgaatgctc	cacaatttca	acataccaca	agagaagtta	atttcttaac	attgtgttct	4260
atgattattt	gtaagacctt	caccaagttc	tgatatcttt	taaagacata	gttcaaaatt	4320
gcttttgaaa	atctgtattc	ttgaaaatat	ccttggtgtg	tattagggtt	ttaaatacca	4380
gctaaaggat	tacctcactg	agtcatacag	accctcttat	tcagctcccc	aagatgatgt	4440
gtttttgctt	accctaagag	aggttttctt	cttattttta	gataattcaa	gtgcttagat	4500
aaattatgtt	ttctttaagt	gtttatggta	aactctttta	aagaaaaatt	aatatgttat	4560
agctgaatct	ttttggtaac	tttaaatctt	tatcatagac	tctgtacata	tgttcaaaat	4620
agctgcttgc	ctgatgtgtg	tatcatcggt	gggatgacag	aacaaacata	tttatgatca	4680
tgaataatgt	gctttgtaaa	aagattttcaa	gttattagga	agcatactct	gttttttaaat	4740
catgtataat	attccatgat	acttttatag	aacaattctg	gcttcaggaa	agtctagaag	4800
caatattttct	tcaaataaaa	gggtgttttaa	cttt			4834

<210> 301

<211> 4112

<212> DNA

<213> Homo sapiens

<400> 301

caaggcgctt	gcgactcggt	cccagggtcgg	cgggcgggcg	gcggcgggct	cgcgcggggg	60
ccccggcgcg	ccggggcgcg	cagtagcgag	cgcgcggacc	cacgccacgg	ccaggagccc	120
agagcagcgc	ggccacactg	cccagggggtc	ggccctcggc	cccggcgctc	ggagcgcgcc	180
ggctgcctgg	gctttaatgg	ctgctccggc	gagcagcgcc	tagggctgga	aggcggtctgc	240
ggctcaggaa	gtcacccgag	caagcctcct	tcggggcgcg	ccgcacccgc	cgcgcgcgcg	300
tccatggggg	cgcgctcccc	ccggggcggc	cgtgaccccg	ggacgcccgg	gcccgtctgc	360
tcgcccggcg	cgcgtcccg	ccatgaactg	agcccgcggg	ccagccccgc	gcctgctccg	420
cccgcgcctt	tcttctcgcg	cctcctccgc	ccgcgcggcg	cgggcccggc	cccccggggg	480
ctgcggcgcc	cggggctcgg	cggcccgcgg	gcccgggggc	gcggggcgcg	ggcggggggg	540
ggcgcgcgcg	tcggggcgcg	gcgcctgcac	catgaactac	cagcagcagc	tggccaactc	600
ggctgccatc	cgggcccaga	tccagcgctt	cgagtcggtc	caccccaaca	tctactccat	660
ctacgagctg	ctggagcgcg	tggaggagcc	gggtgctgcag	aaccagatcc	gggagcacgt	720
catcgccatc	gaagatgcct	tcgtgaacag	ccaggaatgg	acgctgagtc	gatctgtccc	780
ggagctcaaa	gtgggaattg	tgggttaactt	ggccagcggc	aagtctgccc	tgggtgcaccg	840
gtacctgacg	ggcacatatg	tccaggaggga	gtctccggaa	gggtggcagg	tcaagaaaga	900
gattgtcggt	gatggacaga	gctatctgct	gctgatcaga	gatgaagggg	gccccccgga	960
ggcgagcttt	gccatgtggg	tggacgctgt	tatatgtgtc	ttcagcttgg	aggatgaaat	1020
aagttttccg	accgtttacc	actactacag	tcgaatggcc	aactatcgga	acacgagcga	1080
gattcctctg	gttctgggtg	gaaccacagga	tgccataagt	tctgctaacc	cgagggtcat	1140
cgatgacgcc	agggcgagga	agctctccaa	cgacctgaaa	cgggtgcacgt	actacgagac	1200
gtgtgctaca	tacgggctga	atgtggagag	gggtcttcag	gacgttgccc	agaagattgt	1260
tgccacaagg	aagaagcagc	agctgtccat	aggaccctgc	aagtgcgtac	ctaattctcc	1320
cagccatttc	tccgtctggt	ccgcgcaggt	gtctgcccgtg	cacatcagcc	agacaagtaa	1380
tggaggtggg	agtttaagcg	actattcctc	ctccgttcca	tcgactccca	gcatcagcca	1440
gaaggaaactt	cggatcgatg	ttcctcccac	tgccaaacacg	cccacgcccc	ttcgcaagca	1500
gtctaagcgc	cgggtccaacc	tgttcacctc	tcggaaagggg	agcgacccag	acaaagagaa	1560
gaaaggcctg	gagagtcgtg	cggacagcat	tgggagcggc	cgagccatcc	caattaaaca	1620
gggcatgctg	ttgaagcgaa	gtggcaaatc	gttgaataaa	gagtggaaaa	agaaatatgt	1680
caccctgtgt	gacaatggcg	tgctgacctt	tcacccaggt	ttacatgatt	acatgcagaa	1740
tggtcatggg	aaggagattg	accttctgag	aaccactgtg	aaagtccag	ggaagaggcc	1800
accccgagcc	acgtcagcct	gcgcacccat	ctccagccct	aaaaccaatg	gcctatccaa	1860
ggacatgagc	agttttacaca	tctcacccaa	ttcagacaca	gggctgggtg	actccgtatg	1920
ctccagcccc	agtatctcca	gcaccaccag	ccccagctc	gacccgcccc	cctccccctca	1980
cgccaacaga	aagaagcacc	gaagggaaga	aagcactagc	aacttcaaaag	ccgacggcct	2040
gtccggcact	gctgaagaac	aagaagaaaa	ttttgagttt	atcatttgtt	ccctcactgg	2100
ccaaacatgg	cacttttgaag	ccacgacgta	tgaggagcgg	gacgcctggg	tccaagccat	2160
cgagagccag	atcctggcca	gcctgcagtc	gtgcgagagc	agcaagaaca	agtcccggt	2220
gacgagccag	agcgaggcca	tggccctgca	gtcgatccgg	aacatgcggg	ggaactccca	2280

bioRxiv preprint doi: <https://doi.org/10.1101/000000>; this version posted October 1, 2014. The copyright holder for this preprint (which was not certified by peer review) is the author/funder, who has granted bioRxiv a license to display the preprint in perpetuity. It is made available under aCC-BY-NC-ND 4.0 International license.

ctgtgtggac	tgcgagaccc	agaatcccaa	ctggggccagt	ttgaacttgg	gagccctcat	2340
gtgcatcgaa	tgctcagggg	tccaccggaa	tcttggcacc	cacctttccc	gagtccgac	2400
tctggacctg	gatgactggc	caatcgagct	catcaagggt	atgtcatcca	tcgggaacga	2460
gctagccaac	agcgtctggg	aagagagcag	ccaggggccc	acgaaaccat	cggtagactc	2520
cacaagggaa	gagaaggaac	ggtggatccg	tgccaagtac	gagcagaagc	tcttcctggc	2580
cccgtgccc	tgcacggagc	tgtccctggg	ccagcacctg	ctgcgggcca	ccgccgacga	2640
ggacctgccc	acggccatcc	tgctgctggc	acacggctcc	cgggacgagg	tgaacgagac	2700
ctgccccggg	ggagacggcc	gcacggcgct	gcactctggc	tgccgcaagg	ggaatgtggt	2760
cctggcgagc	ctcctgatct	ggtacggagt	ggacgtcacg	gcccagagatg	cccacgggaa	2820
cacagctctg	gcctacgccc	ggcaggcctc	cagccaggag	tgcatcgacg	tgctgctgca	2880
gtacggctgc	cccagcagagc	gcttcgtgct	catggccacc	cctaacctgt	ccaggagaaa	2940
caataaccgg	aacaacagca	gtgggagggg	gcccaccatc	atctgaggaa	cagccgtgcc	3000
cgcctgctcg	ccgcacctgg	gacgcggcag	cctcgccgca	ttctcgctca	gaagtgcgag	3060
cacgtgagtc	ccgtcgcatc	ccctccctct	tcttgggtggc	cacctccctc	cggcccaccc	3120
actctcacc	caaacaaaat	cacaaaacct	ggacatccct	caaggggcca	agaggcgggc	3180
gggagactgc	agaagtggct	ccttttcata	aactccctta	aaccacacac	aggagagagc	3240
gacgggcctc	ggccctttga	tgatagcaca	tggcgcaggga	cccttgctct	ggtgggcacaa	3300
gggatggggg	cgcgaggggg	aggggagggc	aggaacaagg	agaaggggca	actttccctta	3360
actggcagtt	gagcacatag	tacatttccc	ctctaccaaa	cggaaacactt	ggattccatc	3420
tcttctctga	ggagctcgac	ggcataaaatc	agaagcaagc	acagagtctg	tcagggtttga	3480
agccccatag	atggtgtgtg	tcaaatcagt	tgtagcta	ctgtccaggg	agaatactgg	3540
cttcattaca	cttgtacagc	cgagttcttc	ccgcattact	gctgtttaat	agaacgtgat	3600
tagtcatcgc	cgagaagaaa	gcataattagc	cgaggaggta	gtcacgcggc	acgcgcgggt	3660
gattgcccag	atgtgattgc	aatactctta	gaagcaccat	attatcccag	acatgttctt	3720
tcaagccctt	ggagccctct	ctaaattcac	tgtcatcatt	tagtatctgt	ttaatTTTTT	3780
agtccaaaga	gaggaaatca	gtcgctgagt	attatttgac	tccggtctcc	ttgggtgcaaa	3840
aacaaaatgg	gaaaaataaa	taagaataac	tcagaaactc	aaaaggaaac	cacaaattca	3900
gctaataata	gcatttccag	tatatctcgt	aaactaaagg	aatacacaaa	aggctgtttt	3960
tttccgactg	taagagatat	ttgatgtcct	tttgccgagg	tggatgtgtt	agtctcaggc	4020
cctcctggac	cacgttgccc	aagtcacaca	ggcttctgtg	ttatgtattt	agataagatg	4080
tgtgaaaata	tatttgaata	aaagaagttc	at			4112

<210> 302
 <211> 1096
 <212> DNA
 <213> Homo sapiens

gggggagcac	tagcagcagc	cgaggtcggc	ggaaagcacc	cgggcgcagc	cggagccggg	60
gccgcagctg	cgatggccgt	ggccgtgggg	agaccgtcta	atgaagagct	tcgaaaacttg	120
tctttgtctg	gccatgtggg	atttgacagc	ctccctgacc	agctggtcaa	caagtctact	180
tctcaaggat	tctgtttcaa	catcctttgt	gttgggtgaga	caggcattgg	caaatccacg	240
ttaatggaca	ctttgttcaa	caccaaattt	gaaagtgacc	cagctactca	caatgaacca	300
ggtgttcggg	taaaagccag	aagttatgag	cttcaggaaa	gcaatgtacg	gctgaagtta	360
accattgttg	acaccgtggg	atttgagagc	cagataaata	aagatgacag	ctataagccg	420
atagtagaat	atattgatgc	ccagttcgag	gcctacctgc	aagaggaatt	gaagattaaa	480
cgttctctct	tcaaccacca	tgacacgagg	atccatgcct	gcctctactt	tattgcccct	540
actggacatt	cactaaagtc	cctggatctg	gtcaccatga	aaaagctgga	cagtaagggtg	600
aacatcattc	caataattgc	aaaagctgac	accattgcca	agaatgaact	gcacaaattc	660
aagagtaaga	tcatgagtga	actggtcagc	aatggggctc	agatatatca	gtttcccact	720
gatgaagaaa	cgggtggcaga	gattaacgca	acaatgagtg	tccatctccc	atgtgcagtg	780
gttggcagca	cogaagaggt	gaagattggc	aacaagatgg	caaaggccag	gcagtacccc	840
tgggggtgtg	tgcaggttga	gaatgaaaa	cattgcgatt	ttgtgaaact	tcgagagatg	900
ctgatccgcg	tgaacatgga	ggacttgcca	gagcagactc	acaccgcgca	ctatgaattg	960
taccacgctg	taagcttgaa	gagatggggg	tcaaggacac	tgacctgac	agcaaaacct	1020
tcagtcttca	ggggacatat	gaagcaaaaa	ggaatgaatt	cctgggagaa	ctgcagaaaa	1080
aaaaaaaaa	aaaaaa					1096

<210> 303
 <211> 4373
 <212> DNA
 <213> Homo sapiens

<400> 303

gaagcgaatg	tgattcttcc	ccagaaccga	aagcttttgc	tcagactcct	aggccgagga	60
gtcgttctcc	atcatcccca	gagctcaaca	acaagtgtct	tacccccccag	agagaaagaa	120
gcgggtcaga	atcatcagtt	gatcagaaaa	ctgtggctcg	gactccccctg	gggcagagaa	180
gtcgttcggg	atcctctcaa	gaacttgatg	tgaaaaccag	tgcattcccc	caggaaagaa	240
gtagtcaga	ctctttctcca	gattctaaag	ccaagacacg	aaccccactt	cggcgagagga	300
gtcggctctgg	atcatctcca	gaggttgaca	gcaaactctcg	actatcccc	cggcgagta	360
ggtctgggtc	ctccccgtgaa	gtgaaagata	agccaagagc	agcaccacagg	gcacagagtg	420
gttctgattc	ctctcctgaa	cctaaagctc	cagccccctc	ggccccctccc	agacgaagca	480
gatcaggttc	atcaagcaaa	ggcagaggcc	cttctcttga	aggaagcagc	agtacccagt	540
cctctcctga	acatccggcc	aaatccagaa	ctgtctgcag	agggtccagc	tcattaccag	600
agcccaagac	caagtctcgt	acaccacctc	gacgtcgcag	ctctcgatca	tctccggagc	660
taaccaaggaa	ggccagactg	tcccgtagaa	gcccgtctgt	ctcatctcca	ccagaaactc	720
gctctagaac	tcccccaagg	caccggagaa	gtccctcagc	gtcttcccgc	gagccagccg	780
aaaaatcgag	gtcttcaacg	cgaaggcgct	cagcttcatc	tccacgcact	aagacaacct	840
caaggagagg	ccgctctcct	tgcgcaaacg	ctcgtggact	ccagagggtcc	cgttccccgt	900
caaggagaga	gaaaacaaga	acaacccgac	gtcgagatag	gtctggatct	tctcagtcac	960
cctctcggcg	aagacagcgg	agccggtcaa	ggtcgcggtg	tactcggcgg	cggaggggag	1020
gctctggtta	tcactcaagg	tcacctcccc	ggcaggaaga	ttcccggacc	tctctctcac	1080
gccgaagagg	ccgctctcgg	acacccccaa	ccagtcggaa	cgcttctcgc	tcacgcacat	1140
caccagcccc	gtggaaacgc	tctagatctc	gagcctctcc	agccactcac	cggcgatcca	1200
ggtccagaac	ccccctgata	agccgacgta	ggtccagatc	tcgaacttca	ccagtacgcc	1260
ggagacggtc	aagggtccagg	acttcagtga	ctcgacgaag	atcccgggtc	agagcatccc	1320
cagttagcgc	aaggcgatcc	agttccagaa	cgccaccagt	aacccgcgct	cgttcaagggt	1380
ctagaacgcc	aacaacacgc	cgccgctccc	gttctagaac	tccaccagtg	actcgcagaa	1440
ggtccagatc	caggactcca	ccagtaacca	ggaggcgatc	tcgaagcaga	acttcgccta	1500
tactctcgca	aagatcaaga	tccagaacat	ctccggtcac	ccgaaggaga	tctcgatctc	1560
gcactctccc	agtaactcga	agaaggtccc	ggtctegaac	ctcaccagtg	acacgcgcgc	1620
gctctaggtc	ccggacacct	ccagctattc	ggcgccgctc	tagatctcga	acgccactgt	1680
taccacgcaa	acgttctcga	agtcgctcac	cacttgctat	ccgcgcgcgc	tccagatccc	1740
gtactccacg	aacagctcgg	ggtaaacggt	ccttaacaag	atctcctcca	gccatccgca	1800
ggcgtttctg	atctggaaag	agttcttgat	gttcacgatc	tgtactcct	ccagcaacaa	1860
gaaatcattc	tggttcacgg	acacctccag	tagcatcca	cagttccaga	atgagtctgt	1920
tcagtctgtc	tgcagtgtcc	ccaacacctc	ttgatcgctg	cagatcacct	ggaagtcttg	1980
aaccccttgg	cagctctaga	acaccatgt	ctgtcctgca	gcaagccggc	ggctccatga	2040
tggatgggtc	agggtccccg	atacctgacc	accagagaac	atctgtgcca	gaaaatcatg	2100
ctcagttccg	gattgcactt	gcccctgacg	ctatcagttc	tggcacggct	cggctctctc	2160
cgtccatgtc	tgtctgtggc	cttgtctcaa	gaatgtocca	ggttccagcc	ccggtgcctc	2220
tcatgagttc	cagaaccgca	ccagcagcca	accttgccag	caggattcct	gcagcctctg	2280
cggcagccat	gaacctagcc	agcgccagga	cacctgccat	tccaacagca	gtgaacctgg	2340
ctgactctcg	aacgccagct	gcagcagcgg	ccatgaactt	ggcacagccc	agaacacggg	2400
tggcaccttc	ggctgtgaac	ctggctgacc	ctcgcactcc	gcagccccca	gctgtgaacc	2460
tagcaggggc	cagaaaccca	gctgccttgg	cagctctgag	tctcacaggc	tctggcacac	2520
caccaactgc	tgcaaactat	ccctccagct	ccagaacacc	acaggctcca	gcctctgcaa	2580
acctggtggg	tcttcggtct	gcacatgcca	cagctcctgt	gaatatgtcc	ggctccagaa	2640
cgcccgccag	cttgggcccc	gcgagctcca	ccagtgctag	gatggctcca	gcattgtctg	2700
gtgcaaaacct	caccagcccc	agggtgcccc	ttctgtccca	cgagcgtgtc	agtggcagaa	2760
cctcaccacc	gtctcttgac	cgagctaggt	ccagaacacc	accgtctgcc	ccaagccaat	2820
ctaggatgac	ctctgaacgg	gctccctccc	cttctcttag	aatggggccg	gctccttcac	2880
agtctcttct	ccctccagca	caggatcagc	cgaggtctcc	tgtgccttct	gcttttttcc	2940
accaatcccg	tgttttgatt	gcccagacca	ccccgttagc	agggtctcag	tccttttctc	3000
ctggggcagt	ggcaacgacc	acgtcctctg	ctggtgatca	caatggcatg	ctctctgtcc	3060
ctgcccttgg	ggtgccccac	tctgatgtgg	gggagccacc	tgcctctact	ggggcccagc	3120
agccttctgc	attagccgcc	ctgcagccag	caaaggagcg	gcggagtctc	tctctgtctg	3180
cgtcgtcttc	tagtctctcc	tctcttctat	cactcgtctc	gtcgtcctcc	tctcctctctg	3240
gtctcagttc	tagtgactca	gagggtctta	gccttctgtg	gcaaccttag	gtggcactga	3300
agagggtccc	cagccccacc	ccagccccaa	aggaggctgt	tcgagaggga	cgtcctccgg	3360
agccaaacccc	agccaaacgg	aagaggcgct	ctagcagttc	cagttccagc	tctcctctct	3420
catcttcttc	tctctctctc	tctctctctt	cttctctct			

ggggattcca	ccacacccaa	tgctctggag	ccacaaggag	tgccccctct	ccccagcag	3900
agcgcgtgga	gggtccttgt	ctgctctcct	ttgaaccttg	gcagccccctg	gatggagggc	3960
tccccctccc	tccccctttt	ttttctcttg	ttcctgtgaa	atgttaactct	ccgtgagttc	4020
ttcctgggtc	atgtgttctg	gggggttttg	ggtgggaggg	aatgcagatg	ggagttgggg	4080
gaggggagga	tacagtccag	gataccccag	cctggagtca	gggccaggga	ggcatggccc	4140
cacttgtatc	cagaagtcc	caggggtgat	tgtgatgggt	ggtgggactg	gaggttgtat	4200
aaggtgttct	tggaaggaag	gggcaggagt	tggaattagt	tggccccctac	tgtcccccat	4260
gaggttgtga	accccccccc	ccaaacttttc	atgtttctta	aaggcatctt	ggttttttaa	4320
aatctgtaca	gcaagagcaa	ctttttctgt	caaataaaaa	tgagaaatgc	agg	4373

<210> 304

<211> 9027

<212> DNA

<213> Homo sapiens

<400> 304

gcggcccagg	cggggtgcga	gtggcgagct	cgagagcccg	tgccggcccc	gaggaagcga	60
ggaggcgctg	gcgtcggctg	agggcgggcg	accggcgagg	cgaggcgggc	gccccaggcc	120
cgagggactc	gggagctcga	gcagcgggcg	cggaagacc	tctccccctc	ggaggcgggc	180
ggcgaggcg	gcgggagcgg	tggtgcccc	cccgggacg	gggccatgta	caacgggatc	240
gggctgcgga	cgccccgggg	cagcgccacc	aaaggctacg	tccagcgcaa	cctgtccctg	300
gtgcggggcc	gccgggggtga	gcggcctgac	tacaaggag	aggaggaact	gcggcgccctg	360
gaggctgccc	tggtgaagcg	gcctaatact	gacatcctgg	accacgagcg	caagcgggcg	420
gtcgagctgc	gatgcctcga	gctggaggag	atgatggaag	agcaggggta	cgaggaacag	480
caaattcagg	aaaaagtggc	gacotttcga	ctcatgttgc	tggagaagga	tgtgaacctt	540
gggggcaagg	aggagacccc	agggcagagg	ccagcggtca	cggagactca	ccagttggca	600
gaattaaatg	agaagaagaa	tgaaagactc	cgtgctgcct	ttggcatcag	tgattccttac	660
gtagatggca	gctcttttga	tcctcagcgt	cgtgccccgag	aagctaaaca	accagctcct	720
gagcctccca	aaccttacag	ccttgttcgg	gagtcctagca	gttctcgctc	accaaccccc	780
aagcagaaga	agaagaaaaa	gaagaaagat	agaggacgca	ggtcagagag	cagctctcct	840
cgacgggaga	gaaagaaaaa	ctcaaagaag	aagaagcaca	ggtcagaatc	tgagtccaag	900
aaacgtaagc	ataggtctcc	cactccaaag	agcaaacgta	aatctaagga	caaaaagcga	960
aagcgggtctc	gaagtacaac	accagcccc	aagagccgcc	gggcccaccg	ttcaacttct	1020
gctgactctg	cttctctctc	cgatacttcc	cgcagtcggg	ctcgaagtgc	tgtagctaaa	1080
actcatacaa	ctgccttggc	tgggcgaaat	ccttccccctg	cttcaggggcg	acgcggggag	1140
ggagatgcgc	ctttcagtga	accaggtact	accagcacac	aacggcctag	tagcccgag	1200
actgctacga	aacagcctag	cagcccttat	gaagacaaa	ataaagacaa	gaaggagaaa	1260
tctgcaactc	gacctagccc	ctctccggaa	aggagcagca	caggcccaga	accacctgct	1320
cccactccgc	tccttgctga	gcgacatggc	ggctccccac	aaccccttgc	aaccaccccc	1380
tttaagccagg	agccagtga	cccccatct	gaggcctctc	caactcgsga	ccgttcacca	1440
cctaagtctc	ccgagaaact	tccccagtct	tcttccctcag	agagcagccc	accatccccct	1500
caacctacca	aagtttctcg	gcatgccagc	tcttccccag	aaagtccctaa	acctgctcca	1560
gctccagggt	cccaccgaga	gatttcttct	tctccacat	ctaagaatcg	ctcacatggc	1620
cgagcaaaac	gggataaatc	acattctcat	acccctccc	gtaggatggg	gaggtcccgt	1680
agccctgcc	ccgctaagag	agggcgatct	cggtctcgaa	cccctaccaa	gagaggtcat	1740
tctcgatccc	gatctcccca	gtggcgtagg	tccaggtctg	cacagaggtg	gggaagatct	1800
agaagccccc	agcgacgtgg	ccgctctagg	tctcctcagc	gaccaggctg	gtctaggagc	1860
agaaataccc	agagaagagg	caggtctagg	tcagcaaggc	gagggaggtc	ccactctaga	1920
tccccagcca	ctaggggtag	atctcgttct	agaacaccag	cccgccgggg	caggtcccgc	1980
tctagaacac	ctgccaggcg	gagatcacga	tccagaactc	ccaccaggcg	taggtctcgg	2040
tctagaacac	cagcccggag	gggcaggtct	cggtctagaa	cacctgctag	gcgcagatct	2100
aggaccggat	caccagtacg	acgcaggtct	cgtagttagat	caccagccag	gagaagtggc	2160
aggtcacgct	ctagaacccc	agctagacgt	ggccgctcac	gctccagAAC	cccagccaga	2220
cgtggccgct	cacgctctag	aaccccagct	agacgcagtg	gtcgctcacg	ctccagaaca	2280
ccagccaggga	gagggagggtc	tcgggtctagg	acaccaagac	gaggaagatc	ccgcagtaga	2340
agcttagtta	gacgtggaag	atctcactct	agaacacctc	aaagaagagg	cagatctggc	2400
tcattctcag	agcggaaaaa	caaatccaga	acatctcaaa	gaagaagcag	gtccaattca	2460
agcccagaaa	tgaagaaatc	tcgcatcttct	tcaaggcgga	gcaggtctct	ctcttcacca	2520
cggtccaaaag	caaaatctcg	cttgtctttg	aggcgagcc	tttcagggtc	ttccccatgc	2580
ectaaagcaaa	agtcacagac	accacccagg	cgcagtcgct	ctggatcctc	ccaacctaaa	2640
gctaaatcta	gaacgccacc	cagacgcagt	cgtctcagtt	cttctccgcc	acctaaacag	2700
aaatctaaga	caccatcaag	acaaagtcac	tcaggttcat	ctcctcatcc	taaagtgaag	2760
tctggaacac	caccgaggga	agggtccata	acaagctccc	aggccaatga	gcaatctgta	2820
acgccacaga	gacggagctg	ttttgaatca	tcacctgacc	ctgagttgaa	atctaggacc	2880

cctcttagac	atagctgctc	agggctcctc	ctccttagag	tgaaatctag	cacacctccc	2940
agacagagcc	catctaggtc	atcatctcca	caacccaaag	tgaaggcaat	aatatcacca	3000
agacaaagaa	gccattctgg	ctcctcttct	ccaagtccta	gtagggtgac	gtcgagaaca	3060
actccacggc	gaagcagatc	agtatctccc	tgctccaatg	tggaaatccag	attgttgcca	3120
agatacagtc	atctctgggtc	ctcctcacca	gataccaaaag	tgaacctcga	aacaccgcca	3180
agacaaaagtc	actcagggtc	tatttccacca	taccocaaaag	taaaagccca	aactccaccg	3240
gggccaagtc	tttctggatc	aaagtcacca	tgtccccaag	agaagtcata	agactcacta	3300
gttcaaaagtt	gcoctggatc	cctctctctc	tgtgcaggag	taaaatctag	cacaccacca	3360
ggcgagagct	atthttgggt	ctcatctctg	caactgaaag	gacaatctca	aacttcacca	3420
gaccacagat	ctgatacttc	aagtcacaga	gtgagacaga	gtcatccaga	atcaccatct	3480
ctgcagagca	aatctcaaac	atcacctaag	ggaggctcgt	ccaggctctc	atctccagtc	3540
actgagctgg	catccagatc	tccaataaga	caagatagag	gtgagttctc	agcgagtcct	3600
atgtttgaaat	ctggaatgtc	tcctgagcag	agcaggttcc	agtcctgactc	ttcttcatat	3660
cctacagtg	actcgaattc	tctcttggtg	cagagtagat	tggagactgc	tgaatacaaa	3720
gagaaaaatgg	ccttaccccc	tcaggaggt	gctactgcat	cacctcctag	acagaaaagac	3780
aaatthtagtc	cctttccagt	acaggatagg	cctgagtcct	cactgggtatt	caaagacaca	3840
cttagaacc	cgccaagaga	aagaagtggt	gctgggtcat	ctccagaaac	aaaagagcaa	3900
aatagtgcat	tgcctacgtc	aagccaagat	gaagagttaa	tggagggtgt	agagaagtc	3960
gaagaaccgg	caggccaat	ctgtctcat	ttgtcttcag	aacttaagaa	aatgtccaca	4020
agtaaccttg	aatcatctcc	tgaagtagaa	gaaaggcctg	ctgtgtcttt	gactcttgat	4080
cagagccagt	cacaggcttc	tttggaagca	gtagaagtc	cttcaatggc	ctcatcttgg	4140
ggtggggcac	atthttctcc	agaacataaa	gaactgtcta	actccccc	cagggagaac	4200
agctthtggat	cactthttaga	atthtgaata	tcaggcccac	ttggtacaga	aatgataact	4260
ggatthttct	ctgaggttaa	agaagattht	aatggaccgt	ttcttaatca	gctggaataa	4320
gatccatctc	tagacatgaa	agaacaatcg	acaagatcct	ctggacacag	cagttctgag	4380
ttatccccag	atgcagtgga	aaaggcagg	atgtcttcaa	atcagagcat	ctcttcacct	4440
gtgcttgatg	ctgtaccoc	aacaccctcg	tgaagaaaga	gtagttctgc	atcttctcct	4500
gaaatgaaag	atggthttacc	cagaactcca	tcaaggagaa	gcaggctcgg	gtcttctcca	4560
ggacttaag	atgggtctgg	gactccctcg	aggcacagcc	tgtctgggtc	ctctcctgga	4620
atgaaagata	tacctagaac	gccatthtga	gggagaagcg	aatgtgatcc	ttcccagaa	4680
ccgaaagctc	tgcctcagac	tcctaggccg	aggagtcgtt	ctccatcatc	cccagagctc	4740
acacaacaagt	gtcttaccoc	ccagagagaa	agaagcgggt	cagaatcatc	agthtagatc	4800
aaaaactgtgg	ctcggaactcc	ctcggggcag	agaagtcggt	cgggatcctc	ttcagaactt	4860
gatgtgaaac	ccagtgcatc	ccctcaggaa	agaagtgagt	cagactcttc	ttcagattct	4920
aaagccaaaga	cacgaacccc	acttcggcag	aggagtcggt	ctggatcatc	ttcagaggtt	4980
gacagcaaat	ctcgactatc	ccctcggcgc	agtaggtctg	gttctctccc	tgaagtgaat	5040
gataagcccaa	gagcagcacc	cagggcacag	agtggthtctg	atthctctcc	tgaacctaaa	5100
gtccagccc	ctcgggcoct	ttccagacga	aggagatcag	gttcatcaag	caaaggcaga	5160
ggcccttctc	ctgaaggaag	cagcagtaac	gagtcctctc	ctgaacatcc	gcccaaatcc	5220
agaactgctc	gcagaggttc	caggctcatc	ccagagccca	agaccaagtc	tcgtacacca	5280
cctcgagctc	gcagctctcg	atcatctccg	gagctaacaa	ggaaggccag	atgtccogt	5340
agaagccgct	ctgcctcatc	ctcaccagaa	actcgtctca	gaactcccc	aaggcacccg	5400
agaagtccct	cagtgctctc	cccgagcca	gccgaaaaat	cgaggctctc	acgccgacgg	5460
cgctcagctt	catctccacg	cactaagaca	acctcaagga	gaggccgctc	ttcttcgcca	5520
aagcctcgtg	gactccagag	gtcccgttcc	cgctcaagga	gagagaaaaa	aagaacaacc	5580
cgagctcgag	ataggtctgg	atcttctcag	ttcaacctctc	ggcgaagaca	gcggagccgg	5640
tcaaggtcgc	gggttactcg	gcgccggagg	ggaggtctcg	gttatcactc	aaggtcacct	5700
gcccggcagg	aaagthcccc	gacctctctc	cgacgccgaa	gaggccgctc	tcggacaccc	5760
ccaaccagtc	ggaagcgttc	tcgctcacgc	acatcacagg	ccccgtgaa	acgctctaga	5820
ttctcgagcct	ctccagccac	tcaccggcga	ttcaggttca	gaacccccct	gataagccga	5880
cgtaggtcca	gatctcgaac	ttcacacgca	agccggagac	gggtcaaggtc	caggacttca	5940
gtgactcgac	gaagatccc	gtcaagagca	ttcccagtg	gcagaaggcg	atccagatcc	6000
agaacgccac	cagtaacccc	ccgtcgttca	aggcttagaa	cgccaacaac	acgccgccgc	6060
ttccgttcta	gaactccacc	agtgactcgc	agaaggtcca	gatccaggac	ttcaaccagta	6120
accaggaggc	gatctcgaag	cagaactctg	ctcatcactc	gcagaagatc	aagatccaga	6180
acatctccgg	tcaccgcgaag	gagatctcga	ttctgcacat	ctccagtaac	tcgaagaagg	6240
ttccgctctc	gaacctcacc	agtgaacgc	cgccgtctca	ggtccccgg	acctccagct	6300
atctcgccgc	gctctagatc	tcgaacgcca				

gaccaccaga	gaacatctgt	gccagaaaat	catgctcagt	ccaggatg	acttgccctg	6780
acagctatca	gtcttggc	cgctcggcct	cctccgtcca	tgtctgctgc	tggccttgct	6840
gcaagaatgt	cccagggtcc	agccccgggtg	cctctcatga	gtctcagaac	cgcaccagca	6900
gccaacccctg	ccagcaggat	tcctgcagcc	tctgcggcag	ccatgaacct	agccagcgcc	6960
aggacacctg	ccattccaac	agcagtgaac	ctggctgact	ctcgaacgcc	agctgcagca	7020
gcggccatga	acttggccag	ccccagaaca	gcgggtggcac	cttcggctgt	gaacctgggt	7080
gacctctcga	ctcccacagc	cccagctgtg	aacctagcag	gggccaagaac	cccagctgcc	7140
ttggcagctc	tgagtctcac	aggctctggc	acaccaccaa	ctgctgcaaa	ctatccctcc	7200
agctccagaa	caccacaggg	tccagcctct	gcaaacctgg	tgggtcctcg	gtctgcacat	7260
gccacagctc	ctgtgaatat	tgcgggtccc	agaaccgccg	cagccttgcc	ccccgcgagc	7320
ctcaccagt	ctaggatggc	tccagcattg	tctgggtgcaa	acctcaccag	ccccaggggtg	7380
cccccttctg	cctacgagcg	tgtcagtggc	agaacctcac	caccgctcct	tgaccgagct	7440
aggctccagaa	caccacggct	tgccccaaagc	caacttagga	tgacctcga	acgggctccc	7500
tccccctctc	ctagaatggg	ccaggctcct	tcacagtctc	ttctccctcc	agcacaggat	7560
cagccgaggt	ctcctgtgcc	ttctgctttt	tcagaccaat	cccgctgttt	gattgcccag	7620
accacccctg	tagcaggggtc	tcagtccctt	tcctctgggg	cagtggcaac	gaccacgtcc	7680
tctgctgggtg	atcaccaatgg	catgctctct	gtccctgccc	ctggggtgccc	ccactctgat	7740
gtgggggagc	cacctgcctc	tactggggcc	cagcagcctt	ctgcattagc	cgccctgcag	7800
ccagcaaaagg	agcggcggag	ttcctcctcg	tcgtcgtcgt	cctctagctc	ctcctcctct	7860
tcattcatcgt	cgctcgtcgtc	ctcctcctcc	tctggctcca	gttctagtga	ctcagagggc	7920
tctagccttc	ctgtgcaaac	tgagggtggca	ctgaagaggg	tccccagccc	caccccagcc	7980
ccaaaggagg	ctgttcgaga	gggacgtcct	ccggagccaa	ccccagccaa	acggaagagg	8040
cgctctagca	gttccagttc	cagctcctcc	tcttcattct	cctcctcctc	ctcctcctcc	8100
tcttcttctc	cctcctcttc	ctcttcttct	tcttctcctc	catcttctc	ctcctcgtcg	8160
tcttctcctc	cttccctctg	taagcctggc	cctcaggcct	tgcccaaac	tgcaagcccc	8220
aagaagccac	ccccctggcg	gcggagggtcc	cgcagccccc	ggaagccaat	agactccctc	8280
agggactctc	ggctccctcag	ctactcgcct	gtggagcgtc	gccgtccctc	gccccagccc	8340
tcaccacggg	accagcagag	cagcagcagt	gagcgggggt	cccggagagg	ccagcgtggg	8400
gacagccgct	ccccagccca	caagcgcagg	agggagacac	ctagccctcg	gcccattgaga	8460
caccgctcct	ccaggctctcc	ataaatgtgt	tttgggggat	tccaccacac	ccaatgtctc	8520
ggagccacaa	ggaggtgtcc	ttcttcccca	gcagagccgt	gggaggggtcc	ttgtctgttc	8580
tcctttgaac	cttggcagcc	cttggatgga	gggctccctc	tccctccctc	tttttttttc	8640
tttgttctcg	tgaaatgtta	atctccgtga	gttcttctctg	gttcatgtgt	tctgggggggt	8700
ttgggggtggg	aggggaatgca	gatgggagtt	gggggagggg	aggatacagt	tcaggatacc	8760
ccagcctgga	gtcagggcca	gggaggcagt	gccccacttg	tatccagaag	ttcccagggg	8820
tgattgtgat	ggtggttggg	actggaaggt	gtataaggtg	ttcttggaag	gaaggggcag	8880
gagttggaat	tagttgtgtc	ctactgtccc	ccatgaggtt	gtgaacccct	ccccccaact	8940
tttcatgttt	cttaaaggca	ttttggtttt	ttaaaatctg	tacagcaaga	gcaacttttt	9000
ctgtcaaaata	aaaatgagaa	atgcagg				9027

<210> 305
 <211> 2380
 <212> DNA
 <213> Homo sapiens

<400> 305						
tctccgcgctc	cagtgtctgt	tagaggtgct	cgcgcgcgctc	tgtctgtgt	gctgcccggcc	60
cggtctcttag	cccgaccctc	gctcctcctc	cgcgggtccc	tcagcgcggc	ctcctgcgcc	120
ccgatctcct	tgcccgccgc	cgctcccg	agcagcatgg	acggcgcggg	ggctgaggag	180
gtgctggcac	ctctgaggct	agcagtcgcg	cagcaggag	atcttgtgcg	aaaactcaaa	240
gaagataaaag	caccccaagt	agacgtagac	aaagcagtg	ctgagctcaa	agcccgcaag	300
aggggttctgg	aagcaaaagg	gctggcggtta	cagcccaaa	atgatattgt	agaccgagca	360
aaaatggaag	ataccctgaa	gaggaggttt	ttctatgac	aagcttttgc	tatttatgga	420
gggtgttagtg	gtctgtatga	ctttgggcca	gttggctgtg	ctttgaagaa	caatattatt	480
cagacctgga	ggcagcactt	tatccaagag	gaacagatcc	tggagatcga	ttgcaccatg	540
ctcaccocctg	agccagtttt	aaagacctct	ggccatgtag	acaaaatttgc	tgacttcatg	600
gtgaaagacg	taaaaaatgg	agaatgtttt	cgtgctgacc	atctattaaa	agctcattta	660
cagaaattga	tgtctgataa	gaagtgttct	gtcgaaaa	aatcagaaat	ggaaaagtgtt	720
ttggcccagc	ttgataacta	tggacagcaa	gaacttgccg	atctttttgt	gaactataat	780
gtaaaatctc	ccattactgg	aaatgatcta	tccccctccag	tgtcttttaa	cttaatgttc	840
aagacttttca	ttgggcctgg	aggaaacatg	cctgggtact	tgagaccaga	aactgcacag	900
gggatttttct	tgaatttcaa	acgacttttg	gagttcaacc	aaggaaaagt	gccttttgtc	960
gctgcccaga	tttgaaaattc	ttttagaaatg	gagatctccc	ctogactcgg	actgatcaga	1020
gtcagagaat	tcacaatggc	agaaaattgag	cactttgtag	atcccagtg	gaaagaccac	1080

cccaagttcc	agaatgtggc	agaccttcac	ctttatattgt	attcagcaaa	agcccagggtc	1140
agcggacagt	ccgctcggaa	aatgcgcctg	ggagatgctg	ttgaacaggg	tgtgattaat	1200
aacacagtat	taggctat	cattggccgc	atctacctct	acctcacgaa	ggttggaata	1260
tctccagata	aactccgctt	ccggcagcac	atggagaatg	agatggccca	ttatgcctgt	1320
gactgttggg	atgcagaatc	caaaacatcc	tacgggttga	ttgagattgt	tggatgtgct	1380
gatcgttcc	gttatgacct	ctcctgtcat	gcacgagcca	ccaaagtccc	acttgtagct	1440
gagaaacctc	tgaagaagcc	caaaacagtc	aatgttgttc	agtttgaacc	cagtaaggga	1500
gcaatttgga	agccatataa	gaaggatgca	aaactgggtga	tggagtatct	tgccatttgt	1560
gatgagtgc	acattacaga	aatggagatg	ctgctgaatg	agaaagggga	attcacaatt	1620
gaaactgaag	ggaaaacatt	tcagttaaca	aaagacatga	tcaatgtgaa	gagattccag	1680
aaaacactat	atgtgggaaga	agttgttccg	aatgtaattg	aaccttcctt	cggcctgggt	1740
aggatcatgt	atcgggtatt	tgaacatata	ttccatgtac	gagaaggaga	tgaacagaga	1800
acattcttca	gtttccctgc	tgtagtgtgc	ccattcaaat	gttccgtcct	ccactgagc	1860
caaaaccagg	agttcatgccc	atltgtcaag	gaattatcgg	aagccctgac	caggcatgga	1920
gtatctcaca	aagtagacga	ttcctctggg	tcaatcggaa	ggcgtatgc	caggactgat	1980
gagattggcg	tggccttttg	tgtcaccatt	gactttgaca	cagtgaacaa	gacccccac	2040
actgcaactc	tgaaggaccc	tgactcaatg	cggcagataa	gagcagagat	ctctgagctg	2100
cccagcatag	tccaagacct	agccaatggc	aacatcacat	gggctgatgt	ggaggccagg	2160
tatcctctgt	ttgaagggca	agagactgg	aaaaaagaga	caatcgagga	atgaggacaa	2220
ttttgacaac	ttttgaccac	ttgcgcataa	aaaaaaaaaa	aaactactct	tatgtccact	2280
ttacaaaaga	aaacagcatt	gtgattactc	ccaggggaccg	tattttatct	tcagtggctg	2340
cctgatttta	ccccacacaat	taaagtgtga	ggaatcctga			2380

<210> 306
 <211> 2000
 <212> DNA
 <213> Homo sapiens

<400> 306						
ggtatcgatg	acgtggacat	tgacctccac	atcaacatca	gcttcctcga	tgaggaagtc	60
tctacagcct	ggaaggtcct	ccggacagaa	cctatttgtg	tgaggctgcg	atttctcttc	120
tcccagttac	tagatggacc	agaaccatcc	attgaggttt	tccagccatc	aaataaggaa	180
ggattttgggc	tgggtcttca	gttgaaaaag	atcctgggta	tgtttacatc	ccaacaatgg	240
aaacatctga	gcaatgattt	cttgaagacc	cagcaggaga	agaggcacag	ttgggtcaag	300
gcaagtggta	ccatcaagaa	gttccgagct	ggcctcagca	tcttttcacc	catccccaa	360
tctcccagtt	tccctatcat	acaggactcc	atgctgaaa	gcaaactagg	tgtaccagag	420
cttcgggttg	ggcgccctcat	gaaccgctcc	atctcctgta	ccatgaagaa	ccccaaagt	480
gaagtgtttg	gctacccctcc	cagccccccag	gcagggtctcc	tgtgcccctca	gcacgtgggc	540
ctcctcctccc	cagcacggac	ctctcctttg	gtcagtggtc	actgcaagaa	cattcccact	600
ctggagtatg	gattcctcgt	tcagatcatg	aagtatgcag	aacagaggat	tccaacattg	660
aatgagtagt	gtgtgggtgtg	tgatgagcag	catgtcttcc	aaaatggatc	tatgctgaag	720
ccagctgtct	gtactcgtga	actatgcgtt	ttctccttct	acacactggg	cgctcatgtc	780
ggagctgcag	aggaggtggc	cactggagca	gaggtgggtg	atctgctggt	ggccatgtgt	840
agggcagctt	tagagtcctc	tagaaagagc	atcatctttg	agccttatcc	ctctgtgggt	900
gacccactgc	atcccaagac	tctggccttt	aaccctaaga	agaagaatta	tgagcggctt	960
cagaaaagctc	tggatagtgt	gatgtctatt	cgggagatga	cccagggtct	atattttgga	1020
atcaagaaac	agatggacaa	gttggatccc	ctggcccatc	ctctcctgca	gtggatcatc	1080
tctagcaaca	ggtcacacat	tgtcaaaacta	cctctcagca	ggctgaagtt	catgcacacc	1140
tcacaccagt	tctcctgct	gagcagccct	cttgccaagg	aggctcgggt	ccggaccgcc	1200
aagaagctct	atggcagcac	ctttgccttc	catgggtccc	acattgagaa	ctggcattcg	1260
atcctgcgca	atgggctggg	caatgcatcc	tacaccaaac	tgcagctgca	tggagcagcc	1320
tatggcaaaag	gcatctacct	gagccccatc	tccagtattt	cctttggata	ctcaggaatg	1380
ggaaaaggag	agcacaggat	gccctccaag	gatgagctgg	tccagagata	caacaggatg	1440
aataccatcc	ccacagcccg	atccattcag	tcacgggtcc	tgcagagtgc	gaatctaacc	1500
tgtatagcac	tttgtgaagt	gattacatct	aaggacctcc	agaagcatgg	gaacatctgg	1560
gtgtgcccctg	tgtccgacca	tgtctgcaca	agattcttct	ttgtatatga	ggatgggtcag	1620
gtggggcgatg	ccaacatttaa	tactcaggac	cccaagatac	agaaggaaat	catgcgtgtg	1680
atcgggaactc	aggttttacac	aaactgaggg	ggccccagcc	ctcgtaccac	ccctgttacc	1740
ccaggatcca	tctgcccctca	taaaagtgtt	caggtacagc	agctgaggct	gccctgagga	1800
atcaaggggc	cattaccaag	gggcaggaaa	aggatatgta	agaggtggcc	ttcatggtag	1860
agcttgaccc	aagaactact	ccacattcgg	atggcccaga	ctgactccat	cccctgactt	1920
tccctttgac	ttcacccctgt	ttgtaaaataa	aacaataaaa	tggaaaggtgc	tgtggactgg	1980
aaaaaaaaaa	aaaaaaaaaa					2000

<210> 307
<211> 2268
<212> DNA
<213> Homo sapiens

<400> 307
atggccagcg tccacgagag cctctacttc aatcccatga tgaccaatgg ggttgtgcac 60
gccaatgtgt taggcatcaa ggactgggtg acgccgtaca agatcgcggt gctgggtgctg 120
ctgaacgaga tgagccgcac aggcgagggc gccgtcagcc tcatggagcg gcggaggctc 180
aaccagctgc tcctgcccct gctgcagggc ccagatatta cactgtcaaa actttacaag 240
ttaattgaag agtcttgtcc acagctggca aattcagtgc agatcagaat caaactgatg 300
gctgaaggcg agttgaagga tatggaacag ttttttgatg acctttcaga ttctttctct 360
ggaactgaac cagaggttca caaaacaagt gtagtaggtt tgtttctgcg tcacatgatc 420
ttggcctaca gtaagctttc tttcagccaa gtgtttaaac tgtacactgc ccttcagcag 480
tacttccaga atggtgagaa aaagacagtg gaggatgctg atatggaact gaccagtaga 540
gatgaggggtg aaagaaaaat ggaaaaagaa gaacttgatg tatctgtaag agaagaggag 600
gtatcttgca gtgggcctct gtcccaaaaa caagcagaat tttttctttc tcaacagggt 660
tcttttgctaa agaattgatg gactaaggcc ctcaactccag cttccttgca gaaggaatta 720
aacaatttgt tgaaatttaa tcctgatatt gctgaagcgc attatctcag ctacttaaac 780
aacctccgtg tccaagatgt tttcagttca acacacagtc tcctccatta ttttgatcgt 840
ctgattctta ccggagccga aagcaaaagt aatggggaag agggctatgg ccggagcttg 900
agatacgcgg ctctgaatct tgccgcctcg cactgccgct tccgtcacta tcaacaggca 960
gagctcgccc tgcaggaggc aattaggatt gccaggagt ccaacgatca cgtgtgtctc 1020
cagcactggt tgagctggct ttatgtgctg gggcagaaga gatccgatag ctatgttctg 1080
ctggagcatt ctgtgaagaa cgcagtacat tttgggttac cgtacctcgc ctccctggga 1140
atacagtcct ttgttcaaca gagagctttt gctgggaaga cggcaaaca gctgatggat 1200
gccctaaagg actccgacct cctgcactgg aaacacagcc tgtcagagct catcgatctc 1260
agcatcgcac agaaaaacggc catctggagg ctgtatggcc gcagcaccat ggcactgcaa 1320
caggcccaga tgttgctgag catgaacagc ctggaggcgg tgaatgcggg cgtgcagcag 1380
aacaacacag agtcctttgc tgtcgcactc tgccacctcg cagagctaca cgcggagcag 1440
ggctgttttg ctgcagcttc tgaagtgtta aagcacttga aggaacgatt tccgcctaatt 1500
agtcagcacg cccagttatg gatgctatgt gatcaaaaaa tacagtttga cagagcaatg 1560
aatgatggca aatatcattt ggctgattca cttgtttacag gaatcacagc tctcaatagc 1620
atagaggggt tttataggaa agcggttgtg ttacaagctc agaaccaaat gtcagaggca 1680
cataagcttt tacaaaaatt gttggttcat tgtcagaaac tgaagaacac agaaatgggtg 1740
atcagtgtcc tactgtccgt ggcagagctg tactggcgat cttcctcccc taccatcgcg 1800
ctgcccattg tcctgcaggc tctggccctc tccaaggagt accggttaca gtacttggcc 1860
tctgaaacag tgctgaactt ggcttttgcg cagctcattc ttggaatccc agaacaggcc 1920
ttaagtcttc tccacatggc atcttggtg acggggctat cctggacaaa 1980
ggctcgtgcca tgttcttagt ggccaagtgc caggtggctt cagcagcttc ctacgatcag 2040
ccgaagaaag cagaagctct ggaggctgcc atcgagaacc tcaatgaagc caagaactat 2100
tttgcaaagg ttgactgcaa agagcgcctc agggacgtcg tttacttcca ggccagactc 2160
taccataccc tggggaagac ccaggagagg aaccgggtgtg cgatgctctt ccggcagctg 2220
catcaggagc tgccctctca tggggtaccc ttgataaacc atctctag 2268

<210> 308
<211> 3176
<212> DNA
<213> Homo sapiens

<400> 308
ggtgggtggcg gcggcgcaag ggtgagggcg gcccagaac cccaggtagg tagagcaaga 60
agatgggtgtt tctgcccctc aaatgggtccc ttgcaatcat gtcattttcta ctttccctcac 120
tgttggctct cttaactgtg tccactcctt catgggtgtca gagcactgaa gcatctocaa 180
aacgtagtga tgggacacca tttccttgga ataaaaatag acttccctgag tacgtcatcc 240
cagttcatta tgatctcttg atccatgcaa accttaccac gctgaccttc tggggaacca 300
cgaaagtaga aatcacagcc agtcagccca ccagcaccat catcctgcat agtcaccacc 360
tgagatatac tagggccacc ctcaggaagg gagctggaga gaggctatcg gaagaacccc 420
tgcaggctct ggaacacccc cctcaggagc aaattgcaact gctggctccc gagccccctcc 480
ttgtcgggct cccgtacaca gttgtcattc actatgctgg caatctttcg gagactttcc 540
acggatttta caaaagcacc tacagaacca aggaagggga actgaggata cttagcatcaa 600
cacaatttga acccactgca gctagaatgg cctttccctg ctttgatgaa cctgccttca 660
aagcaagttt ctcaatcaaa attagaagag agccaaggca cctagccatc tccaatatgc 720
cattgggtgaa atctgtgact gttgctgaag gactcataga agaccatttt gatgtcactg 780

tgaagatgag	cacctatctg	gtggccttca	tcattttcaga	ttttgagtct	gtcagcaaga	840
taaccaagag	tggagtcaag	gtttctgttt	atgctgtgcc	agacaagata	aatcaagcag	900
attatgcact	ggatgctgcg	gtgactcttc	tagaatttta	tgaggattat	ttcagcatac	960
cgtatccccct	acccaaacaa	gatcttgctg	ctattcccga	ctttcagtct	ggtgctatgg	1020
aaaactgggg	actgacaaca	tatagagaat	ctgctctgtt	gtttgatgca	gaaaagtctt	1080
ctgcatcaag	taagcttggc	atcacaaatga	ctgtggccca	tgaactggcc	caccagtggg	1140
ttgggaacct	ggtcactatg	gaatggtgga	atgatctttg	gctaaatgaa	ggatttgcca	1200
aatttatgga	gtttgtgtct	gtcagtgtga	cccatcctga	actgaaaagt	ggagattatt	1260
tcttttgcaa	atgttttgac	gcaatggagg	tagatgcttt	aaattcctca	catcctgtgt	1320
ctacacctgt	ggaaaatcct	gctcagatcc	gggagatgtt	tgatgatgtt	tcttatgata	1380
agggagcttg	tattctgaat	atgctaaggg	agtatcttag	tgctgacgca	tttaaaagtg	1440
gtattgtaca	gtatctccag	aagcatagct	ataaaaaatc	aaaaaacgag	gacctgtggg	1500
atagtatggc	aagtattttgc	cctacagatg	gtgtaaaagg	gatggatggc	ttttgctcta	1560
gaagtcaaca	ttcatcttca	tcctcacatt	ggcatcagga	aggggtggat	gtgaaaacca	1620
tgatgaacac	ttggacactg	cagaagggtt	ttccccta	aaccatcaca	gtgaggggga	1680
ggaatgtaca	catgaagcaa	gagcactaca	tgaagggtc	tgacggcgcc	ccggacactg	1740
ggtacctgtg	gcatgttcca	ttgacattca	tcaccagcaa	atccgacatg	gtccatcgat	1800
ttttgtcaaa	aacaaaaaca	gatgtgtcca	tcctcccaga	agaggtggaa	tggtacaaat	1860
ttaatgtggg	catgaatggc	tattacattg	tgcattacga	ggatgatgga	tgggactctt	1920
tgacttggcct	tttaaaaggga	acacacacag	cagtcagcag	taatgatcgg	gcgagtctca	1980
ttacaatgc	atcttcagctc	gtcagcattg	ggaagctgtc	cattgaaaag	gccttggatt	2040
tatccctgta	cttgaaacat	gaaactgaaa	ttatgcccgt	gtttcaagg	ttgaatgagc	2100
tgattccctat	gtataagtta	atggagaaaa	gagatatgaa	tgaagtggaa	actcaattca	2160
aggccttctct	catcaggctg	ctaagggaac	tcattgataa	gcagacatgg	acagacgagg	2220
gctcagctctc	agagcgaatg	ctgcggagtc	aactactact	cctcgctgtg	gtgcacaact	2280
atcagccgtg	cgtacagagg	gcagaaggct	atcttcagaaa	gtggaaggaa	tccaatggaa	2340
acttgagcct	gcctgtcgac	gtgaccttgg	cagtgtttgc	tgtggggggc	cagagcacag	2400
aaggctggga	ttttctttat	agtaaatatc	agttttcttt	gtccagttact	gagaaaagcc	2460
aaattgaatt	tgccctctgc	agaacccaaa	ataaggaaaa	gcttcaatgg	ctactagatg	2520
aaagctttta	gggagataaa	ataaaaactc	aggagtcttc	acaaattctt	acactcattg	2580
gcaggaaccc	agtaggatac	ccactggcct	ggcaatttct	gaggaaaaac	tggaaacaaac	2640
ttgtacaaaa	gtttgaactc	ggctcactct	ccatagccca	catggtaatg	ggtacacaaa	2700
atcaattctc	cacaagaaca	cggcttgaag	aggtaaaagg	attcttcagc	tctttgaaag	2760
aaaatgggtc	ttgactccgt	tggtgtccaa	agacaattga	aaccattgaa	gaaaacatcg	2820
gttggtatgga	taagaatttt	gataaaatca	gagtgtggct	gcaaagtga	aagcttgaac	2880
gtatgtaaaa	attcctccct	tgccagggtc	ctgttatctc	taatcaccaa	cattttgttg	2940
agtgtatttt	caaactagag	atggctgttt	tggctccaac	tggagatact	tttttccctt	3000
caactcattt	tttgactatc	cctgtgaaaa	gaatagctgt	tagtttttca	tgaatggggt	3060
ttttcatgaa	tgggctatcg	ctacctgtgt	ttttgttcat	cacaggtgtt	gccctgcaac	3120
gtaaacccaa	gtgttgggtt	ccctgccaca	gaagaataaa	gtaccttatt	cttctc	3176

<210> 309
 <211> 2059
 <212> DNA
 <213> Homo sapiens

<400> 309						
gccccgcgcca	agcgatccct	gctccgcgcg	acactgcgtg	ccccgcgacg	cagagaggcg	60
gtgacgcact	ttacggcgcc	acgtaagtgc	gtgacgctcg	tcagtggctt	cagttcacas	120
gtggcgccmg	sasgmrggtt	gctgtgtttg	tgcttccctc	tacagccaat	atgaaaaggc	180
ctaagttaaa	gaaagcaagt	aaacgcataa	cctgccataa	gcggtataaa	atccaaaaaa	240
aggttcgaga	acatcatcga	aaattaagaa	aggaggttaa	aaagcagggg	cacaagaagc	300
ctaggaaaga	cccaggagtt	ccaaacagtg	ctccctttta	ggaggctctt	cttagggaag	360
ctgagctaaag	gaaacagagg	cttgaagaac	taaaacagca	gcagaaaact	gacaggcaga	420
aggaactaga	aaagaaaaga	aaacttgaaa	ctaactctga	tattaagcca	tcaaattgtg	480
aacctatgga	aaaggagtgt	gggctttgca	aaactgagaa	caaagccaag	tggggcaaac	540
agaattcaaaa	gaagctgtac	tgccaagaa	ttaaaaagg	gattgaagcc	tccgatgttg	600
tcctagaggt	gttggtatgc	agagatcctc	ttggttgag	atgtcctcag	gtagaagagg	660
ccattgtcca	gagtggacag	aaaaagctgg	tacttatatt	aaataaatca	gatctggtac	720
caaaggagaa	tttgagagc	tggctaaatt	atttgaagaa	agaatttgcca	acagtgggtg	780
tcagagcctc	aacaaaacca	aaggataaac	ggaagataac	caagcgtgtg	aaggcaaaag	840
agaatgctgc	tccattcaga	agtgaagtct	gctttgggaa	agagggcctt	tggaaaacttc	900
ttggaggttt	tcaggaaaact	tgcagcaaa	ccattcgggt	tggagtaatt	ggtttcccaa	960
atgtggggaa	aagcagcatt	atcaatagct	taaaaacaaga	acagatgtgt	aatgttgggtg	1020

<210> 311
 <211> 3334
 <212> DNA
 <213> Homo sapiens

<400> 311
 cggaggaggc ccagagaccg gagcgcggag acctcagcca ggggcctacg cccaggcctt 60
 tctccaccgg aggaccaggg aaccgcagtc ttcacacag aggtaccgtg ctccgcgctc 120
 cccgcctgac ccggcccagc ccgctgcggc ggtgcctcct tccttcctcc ttccctcgcg 180
 ctctctcttt cgcccgcccg cgcttccct gcccgcctgc gtcaccgcgg ccgccatggc 240
 tgagaatggc gagagcagcg gcccccgcg cccctcccg ggcctgctg cggcccaagg 300
 ctcggtgctg gccccggctg agcctaaaat catcaaagtc acggtgaaga ctcccaaaga 360
 gaaagaggag ttgcgcggtg ccgagaacag ctcggttcag cagttaaagg aagcgatttc 420
 gaaacgcttc aaatcccaaa ccgacagct agtgctgatt tttgcggaa aaatcttaaa 480
 agatcaagat acccttgatcc agcatggcat ccatgatggg ctgactgttc acctgtgcat 540
 caaaagccag aaccgacctc agggccagtc cagcagcct agcaatgccg cgggaactaa 600
 cactacctcg gcgtcgactc ccaggagtaa ctccacacct atttccacaa atagcaaccc 660
 gtttgggttg gggagcctgg gaggacttgc aggccttagc agcctgggct tgagctcgac 720
 caacttctct gagctccaga gccagatgca gcagcagctt atggccagcc ctgagatgat 780
 gatccaaata atggaaaatc cctttgttca gagcatgctt tcgaatcccg atctgatgag 840
 gcagctgatt atggctaata cacagatgca gcaattgatt cagagaaacc cagaaatcag 900
 tcacctgctc aacaaccag acataatgag gcagacactc gaaattgcca ggaatccagc 960
 catgatgcaa gagatgatga gaaatcaaga cctggctcct agcaatctag aaagcatccc 1020
 aggtggctat aatgctttac ggcgcatgta cactgacatt caagagccga tgctgaatgc 1080
 cgcacaagag cagtttgggg gtaatccatt tgctccgtg gggagtagtt cctcctctgg 1140
 ggaaggtacg cagccttccc gcacagaaaa tcgcatoca ctaccaatc catgggcacc 1200
 accgccagct acccagagtt ctgcaactac cagcacgacc acaagcactg gtagtgggtc 1260
 tggcaatagt tccagcaatg ctactgggaa caccgttgct gccgtaatt atgtcgccag 1320
 catctttagt accccaggca tgcagagcct tgcaaacag ataactgaaa acccccagct 1380
 gattcagaat atgctgtcgg cgccctacat gagaagcatg atgcagtcgc tgagccagaa 1440
 tccagatttg gctgcacaga tgatgctgaa tagcccgctg tttactgcaa atcctcagct 1500
 gcaggagcag atgcccgcac agctcccagc cttcctgcag cagatgcaga atccagacac 1560
 actatcagcc atgtcaaacc caagagcaat gcaggcttta atgcagatcc agcaggggct 1620
 acagacatta gccactgaag caccctggcct gattccgagc ttcactccag gtgtgggggt 1680
 gggggtgctg ggaaccgcta taggcctgt agggccagtc acccccatag gccccatagg 1740
 ccttatagtc ccttttacc ccataggccc cattgggccc ataggacca ctggccctgc 1800
 agccccccct ggctccaccg gctctggtgg cccacagggg cctactgtgt ccagcgctgc 1860
 accatagaaa accacgagtc ctacatcaga atctggaccc aaccagcagt tcattcagca 1920
 aatgggtgcag gccctggctg gagcaaatgc tccacagctg ccgaatccag aagtcagatt 1980
 tcagcaacaa ctggaacagc tcaacgcaat ggggttctta aaccgtgaag caaacttgca 2040
 ggccctaata gcaacaggag gcgacatcaa tgcagccatt gaaaggctgc tgggctccca 2100
 gccatogtaa tcacatttct gtacctggaa aaaaatgta tcttattttt gataatggct 2160
 cttaaatctt taaacacaca cacaaaatcg tctttactt tcattttgat tcttttaaat 2220
 ctgtctagtt gtaagtctaa tatgatgcat ttttaagatgg agtccctccc tctacttcc 2280
 ctactccct ttctcctttg cttatttttc ctaccttccc ttctcttgt ctccccactc 2340
 cctccctctt tgtttccttc cttccttatt tcctttagtt tccttctta gccgttttta 2400
 gtgggtggaa tcaaatgctg tttcactcaa aagtgttgca tgcaaacact tctctttatt 2460
 ctgcatttat tgtgattttt ggaacagggt atcaaccttc acaggttggg tgcaacaagt 2520
 gttgtcctac agatgtocaa tttatttgca tttttaaca ttagcctatg atagtaattt 2580
 aatgtagaat gaagatatta aaaccagaag caaattattt gaagccctct aatttgtggt 2640
 acgatattgc cttatttgtg ctttggcagk tatttttgct agcaaaatgc tgtaagattt 2700
 ataccattga tcttttttgc tatatttgta tacagtacag taagcacaat tggccctgta 2760
 catctaaaaa tattacagta gaatotgagt gtaatatgtg taacaaaaat gagaaagaat 2820
 acaagaaatg tttctggagc tagttatgtc tcacaatttt gtagaatctt acagcatctt 2880
 tgataaaact ctcatgtaaa atgttggcta ggcaagttca gttaaaacat agtacaaatg 2940
 tttatcctgg catctctaag tacacattta attgcacaga aaattttacag tgtaacattg 3000
 cgtcaacatt tgcagattga ctgcaatctt tcttaacttc tgtgcagcct gaaggatcag 3060
 tgtagtaatg ccaggaaaat gctttttacc taagacttcc ttctcagctt ctcccataaa 3120
 cagaccctaa tatgcatttt gatttgaat tggaaatgta actttccctg aaagtgtcat 3180
 gtgatgtttg cattactttt aactgctatg tataaaggaa agtgtgtctt ttgacttcat 3240
 cagttatttc tcttgccccc acagaaaaat gcattaaaaa tgactaaaaa aaataaaaaa 3300
 ttaaaaaatg gaaaaaaaaa aaaaaaaaaa aaaa 3334

<210> 312

<211> 1701
<212> DNA
<213> Homo sapiens

<400> 312

ggaacaaaag	ctggagctcc	accgcggttg	cgcccgctct	agaactagt	gatcccccg	60
gctgcaggaa	ttcggcacga	gcagaagagg	gggctagcta	gctgtctctg	cggaccaggg	120
gagacccccg	gcccccccg	tgtgaggcgg	cctcacaggg	cggggtgggc	tggcgagccg	180
acgcggcgcc	ggaggaggct	gtgaggagtg	tgtggaacag	gacccgggac	agaggaacca	240
tggctccgca	gaacctgagc	accttttggc	tgttgctgct	atacctcatc	ggggcggtga	300
ttgcccagac	agattttctat	aagatcttgg	gggtgcctcg	aagtgcctct	ataaaggata	360
ttaaaaaggc	ctataggaaa	ctagccctgc	agcttcatoc	cgaccggaac	cctgatgata	420
cacaagccca	ggagaaattc	caggatctgg	gtgctgctta	tgaggttctg	tcagatagtg	480
agaaacggaa	acagtacgat	acttatgggt	aagaaggatt	aaaagatggg	catcagagct	540
cccattggaga	cattttttca	cacttctttg	gggattttgg	tttcatgttt	ggaggaaccc	600
ctcgtcagca	agacagaaat	attccaagag	gaagtgatat	tattgtagat	ctagaagtca	660
ctttggaaga	agtatatgca	ggaaattttg	tggagtagtg	tagaaacaaa	cctgtggcaa	720
ggcaggctcc	tggcaaacgg	aagtgcattt	gtcggcaaga	gatgcggacc	acccagctgg	780
gcccctggcg	cttccaaatg	accaggagg	tggctctcga	cgaatgcctt	aatgtcaaac	840
tagtgaatga	agaacgaacg	ctggaagtag	aaatagagcc	tggggtgaga	gacggcatgg	900
agtacccttt	tattggagaa	ggtagacctc	acgtggatgg	ggagcctgga	gatttacggg	960
tccgaatcaa	agttgtcaag	cacccaatat	ttgaaaggag	aggagatgat	ttgtacacaa	1020
atgtgacaat	ctcattagtt	gagtcactgg	ttggctttga	gatggatatt	actcacttgg	1080
atgggtcacia	ggtacatat	tcccgggata	agatcaccag	gccaggagcg	aagctatgga	1140
agaaaggggg	agggctcccc	acaatttgaca	acaacaatat	caagggtctt	ttgataatca	1200
cttttgatgt	ggattttcca	aaagaacagt	taacagagga	agcgagagaa	ggtatcaaac	1260
agctactgaa	acaagggtca	gtgcagaagg	tatacaatgg	actgcaagga	tattgagagt	1320
gaataaaaatt	ggacttttgt	taaaaataagt	gaataagcga	tattttattt	ctgcaagggt	1380
tttttgtgtg	tgttttttgt	tttattttca	atatgcaagt	taggcttaat	tttttctatc	1440
aatgatcatc	atgaaatgaa	taagagggtc	taagaatttg	tccatttgca	ttcggaaaag	1500
aatgaccagc	aaaagggtta	ctaatacgtc	tccctttggg	gattttaatg	ctgggtgctgc	1560
cgcctgagtt	tcaagaatta	aagctgcaag	aggactccag	gagcaaaaaga	aacacaatat	1620
agagggttgg	agttgttagc	aatttcattc	aaaatgcca	ctggagaagt	ctgtttttta	1680
atacattttg	ttgctatttt	t				1701

<210> 313
<211> 5956
<212> DNA
<213> Homo sapiens

<400> 313

ggggagaaca	cttctttgtc	tgggattcca	accagctctg	tccttagctt	gtctctgctt	60
agcagtgttg	cccaaagtaa	ttttccacaa	ggttctgggt	cttccgaaat	ggttttcta	120
cagcttgcta	atttgctggg	tcaaccacca	tcccagccag	ttccagagaa	cttgggtcca	180
gaaagtcaaa	aggatcgtaa	ggcaggaagt	gctcttcccg	gatttgctaa	tagccctgct	240
ggaagcacaa	gtgtgggtgt	agttccacct	gcacacggca	ccctgggtgcc	tgatggta	300
aaggcaaac	attccagtc	tcaggaagac	acttacggag	ccctagactt	tgccttaagc	360
aggactttgg	aaaatcctgt	aaacgtgtac	aaccctccc	attctgacag	cctcgcttct	420
cagcaaaagt	ttgccagtc	tcccagacaa	tctgggcctg	gggcgcctaa	ccttgaccgt	480
ttttatcagc	aggtcacgaa	agatgcccg	ggccagcctg	gcctcgaaa	agcccagcag	540
gagctggcgc	caccccagca	acaggcttct	ccccacaa	tacccaaagc	catgttttgc	600
gagctgtcaa	atccagaaag	tctgcccgc	caggacagag	cccagaaact	agcacagtca	660
ccagcaagtc	tgggtctggg	cgacgcgggt	cagcagctgc	cccctcggcc	tcctcagtc	720
tctagcgtgt	ctctgggtgc	cagtggctcc	ggccaggcag	ctgtgcccgc	agagcagccg	780
tggccacagc	cagtgcctgc	acttgcccc	ggccaccgc	ctcaggacct	ggccgcctac	840
tactactacc	ggcctttgtg	cgatgcctac	cagcctcagt	actctttgcc	gtacccaccg	900
gagcctggcg	cagcctccct	ctattaccag	gatgtctaca	gcctctatga	gcctcgatac	960
aggcctcatg	atgggtgctg	ctctgtttac	ggccagaact	accgctatcc	cgagcccag	1020
cggcccagct	cccagagccag	ccactcctcg	gaacggccac	ctcccaggca	aggatatcct	1080
gaaggatact	atagttccaa	aagtggatgg	agcagtcaga	gcgattacta	tgcaagctat	1140
tactccagcc	agtacgatta	tggagatcca	ggctactggg	atcgttacca	ctacagtgtc	1200
agagtcaggg	acccccgcac	ctatgaccgg	aggtattggg	gtgatgcaga	gtatgacgca	1260
tacaggagag	agcactctgc	cttcggggac	aggcccgaga	aacgtgacaa	caactggagg	1320
tacgatcctc	gcttcacggg	gagttttgac	gatgaccccg	atccgcacag	agacccttat	1380

ggggaagagg	tggaccggcg	cagcgtccac	agcgagcact	cggcacggag	cctgcacagc	1440
gcacacagcc	tggccagccg	ccgcagcagc	ctcagctccc	actcgcacca	gagtcagatt	1500
tacagaagcc	acaatgtggc	tgccggttcc	tacgaggccc	cgcttccctc	aggctccttt	1560
cacggcgatt	ttgcctacgg	cacctaccgc	agcaatttca	gcagtggccc	cggcttccca	1620
gagtatggct	accctgccga	caccgtctgg	cctgccaatg	agcaagtctc	atcaagacca	1680
acttctcctg	aaaaattttc	agtgcctcat	gtctgtgcca	ggtttggccc	tggcgggtcag	1740
cttatcaaag	tgattcccaa	tctgccttca	gaaggacagc	cggccttggg	ggaggtccac	1800
agcatggagg	ccttgctgca	gcacacgtct	gagcaggagg	agatgcgggc	gttcccggga	1860
ccccgggcca	aagacgacac	ccataagggtg	gatgtcatta	attttgcaca	gaacaaagct	1920
atgaaatggt	tgcagaatga	aaacttaatt	gacaaagagt	ctgcaagtct	tctttggaat	1980
tttattgttc	tcttatgcag	acaaaatggg	accgtggtag	ggaccgacat	tgcggagctt	2040
ctgttacgag	accacagaac	agtgtggctt	cctgggaagt	cgcccaatga	agcaaacctg	2100
attgattttca	cgaatgaggc	agtggagcag	gtggaagagg	aggagtctgg	tgaggcccag	2160
ctctcttttc	tcaactgggtg	tccggcggct	gccgccagct	cgctcgagag	agagaccgag	2220
aggttcaggg	agctgttgct	gtatggcctg	aagaaggatg	ctttggagtc	tgcaatgaag	2280
aatggcctgt	ggggtcacgc	tctgctactt	gcaagtaaga	tggacagccg	gacacacgcc	2340
cgagtcatga	ccaggtttgc	taacagcctc	ccaatcaacg	accctctgca	gacagtctac	2400
cagctcatgt	cgggacggat	gcctgccgcy	tccacgtgct	gtggagacga	gaaatgggga	2460
gattggaggc	cgcacctcgc	catggctctg	tccaacttga	acaacaacat	ggacgtcgag	2520
tccaggacga	tggctaccat	gggcgcacat	ctggcttcaa	ggggcctctt	ggatgcggcc	2580
cacttctgct	acctcatggc	ccaggcggga	tttggtgttt	acacgaagaa	aactacaaag	2640
cttgtcttaa	tccgatccaa	tcacagtttg	ccattcttaa	agttcgcaac	caacgaagca	2700
atccagagga	cgggaagccta	tgagtacgcc	cagtcctctg	gtgccgagac	ctgccccctg	2760
cctagttttc	agggtgttta	gttcatctac	tcttgccgoc	tggcggaat	ggggctggcc	2820
acgcaagcct	tccactactg	cgaagccatc	gtgaagagca	tcttgacgca	gccgcacctg	2880
tattccccgg	tgttgatcag	ccagcttgctg	cagatggctt	cccagttacg	actcttcgat	2940
ccccagctga	aagagaagcc	agaagaggag	tccttgcccg	cacccacgtg	gctgggttcac	3000
ctgcagcagg	tggagcggca	gattaaggag	ggggctggag	tatggcatca	ggatggagcc	3060
ctccccgacg	agtgtccttg	cactccgagt	tccgagatgg	agcagttgga	caggccagga	3120
ctcagtcagc	caggagccct	ggggatcgcc	aaccctctgc	tggcggtgcc	tgcaccgagc	3180
cctgagcact	cgagocccgag	cgtgcggctg	ctgcctcag	ctccgcagac	gctccctgac	3240
ggcccatctg	ccagtccctgc	cagagtgcgc	atgttcccag	tgccactgcc	cccgggggccc	3300
ctggagccgg	gtcctggctg	tgtgacccca	gggctcgcac	ttggcttctc	ggagccctcc	3360
gggcctggcc	tcccacctgg	tgtgccacct	ctgcaggaaa	ggagacactt	gctccaggaa	3420
ccaggagcc	cagacccagg	gatagtgcgc	caggaggcgc	ctgttggaat	ctcactttcc	3480
gagctaagcg	aagaaaattt	tgatggaaaa	tttgctaata	tgacccccct	gaggacgggtg	3540
ccagactcgg	aggccccccc	agggtgggat	cgtgccgact	cgggtccccc	gcagccacct	3600
ctgtctctct	caccccgctc	cgaacaaaag	agaccgggac	aggcagccaa	gaaagaaacg	3660
aaggaaacct	agaagggtga	atcctgggtt	tttcgttggc	tacctggaaa	gaaaaagaca	3720
gaagcttatt	tgccagatga	caagaacaaa	tcgattgttt	gggatgaaaa	gaaaaaccag	3780
tgggtgaatt	taaatgagcc	agaagaggag	aagaaagccc	cgccccacc	tccaacctcg	3840
atgcccaga	ctgtgcaagc	tgccccgcct	gccctcccag	ggcctcctgg	agcccccggtg	3900
aacatgtact	ctagaagagc	agcaggaacc	agagctcgct	acgttgacgt	cctgaaccca	3960
agcgggaccc	agcggagcga	gcgggtcttc	gctcctgcgg	actttgtcgc	tccactcgcg	4020
ccactcccaa	ttccttctaa	cttgttcctg	ccaaccccag	atgcagaaga	accacagctt	4080
ccagacggga	ctggcaggga	agggcctgca	gcagctaggg	gcctggccaa	tccagagcct	4140
gccccagagc	ccaaggctcc	tggcgacctc	cctgctgcag	ggggccctcc	cagcggggcc	4200
atgcccttct	acaacccctg	tcagctggca	caggcctgcg	ccacctccgg	gagctcaagg	4260
ctaggggagga	ttggccagag	gaagcacctg	gtgctgaact	aggcttgccc	tgctgtgaac	4320
ttgcacttgg	agccctgacg	ctgctgttct	ccccgaagaa	cccgaccgac	ctccgcgac	4380
tccgtcccgc	ccccaggggag	acacagcagt	gactcagagc	tggctgcaca	ctgtgcctcc	4440
ctcctcaccg	cccatcgtaa	tgaattattt	tgaataattt	ttccaccatc	ctttcagatt	4500
ctggatggaa	agactgaatc	tttgactcag	aattgtttgc	cgaaaagaat	gatgtgactt	4560
tcttagtcat	ttaggatgat	ttaaggatat	agtattcctg	gtcatttaag	aatgttcatt	4620
cattgaagcc	ggagctgtct	ctgccacggg	agagccacat	ggtcggtagt	aaccagggcc	4680
tctccaaagc	cagctgtgag	tcactgcccc	gtgagtcctg	cgttctcttt	aagggtgctgg	4740
gagcaaaagag	agggtgactg	aggcagacct	caacccctgc	tctgcaccat	ctggggcctc	4800
gcccgttttg	aacctggctg	aatgagtggg	gggcgctgtg	ttctcaatca	gcgcctccga	4860
ggagccgtgg	ggttccctcg	gcattagtct	acgggtttttg	agagaggccc	tagttactgc	4920
agtgaatttc	tttccctgtg	cagagacgct	tccagcctca	ctttactttc	tgtggcctga	4980
tgaggaccat	gggtgatatt	gtgtacccaa	agcgtggggg	actgcccacc	gtgtggccca	5040
gtcactggga	aggagccggc	gagagccggc	tgtctgacat	gatggctcag	ggtggtcatc	5100
caggttgaaa	actgaccgtg	tgatgtttga	tttgggcttc	atctcgtgtg	taggagcacg	5160
gttagactca	ctgttaagga	agctggatgc	acttctctaa	aaggctgcac	tttccgtgag	5220

ggccccctgg	gccccgcagac	ctgtggatcc	tggcgggcgc	agcctccccg	caggcgatgc	2700
cctgtacttg	agttttcaacc	ccccacagcc	cagccgaggc	actgaccgcc	tggatctacc	2760
tgtcactact	cgctctgtcc	atcgaaactt	tgaggaccga	gagaggcagg	aactggggag	2820
ccccgaagag	cggttgcaag	acagcagtga	ccctgacact	ggcagcgagg	aggaaggtag	2880
cagccgtctg	tctccgcccc	acagtccacg	agactttacc	agaatgcagg	acatccccga	2940
ggagacggag	agccgcgcagc	gggaggctgt	agcctccgag	agctaagggg	gccccctccc	3000
cctgccccgt	gccccactga	agaacattac	tgagggggct	aaccttgggg	actccaattt	3060
gccaatgatg	agggaacatt	tgaaagaact	gcaaattgtc	cttgccagct	cttgggatcc	3120
ttggatacct	ggggccattt	aagaaagctag	gggaattagg	ccacaacacc	ccctggggaca	3180
tccgaaagct	acaccacaga	tgccagtggt	tcattgcctt	ttcccgcaac	tttaggaaaa	3240
tttattttatt	tattgtttat	tagttatggg	gggagagggg	agattttaaag	gaccaggggac	3300
atgggaaacca	agccataggg	atcagagggc	cttgtccttg	aacactactg	gggtatatct	3360
aggctcatcc	acgcagctgc	tgggttcttg	ccctaaccgg	cctccccctg	aacatccgtc	3420
ttggaggaga	ggctgcagcc	acagcacctt	actgcccttt	aaataaaggga	gggctgtggg	3480
cagggccatg	tccctttctc	ctctcccttc	aacctcttac	tgctgttctc	cctttctccg	3540
tccttcatgg	aagccctggg	agataacctg	gcttcctgga	gttgatggaa	taaagggttg	3600
ggtggccata	atggttttgt	gggggtgagg	gaaaaaacc	acagggacca	gaatgttttg	3660
ttgttctttt	gttttctttt	ttgtaccaa	gtcaactgca	cgtgttttat	atttttaaga	3720
gatcgtaggc	aattagagat	cgaagcctcc	tatctccaca	tctctgaaga	agttgagggg	3780
tgggggagag	aatgacttct	gccttcatct	gcagtaacgg	ggggacctat	actgacctct	3840
tccccagcca	tttagaaaca	agttctaggg	tgggttgga	aatctccaag	agccctgacc	3900
tcatcttcca	cctcagcaac	catgacctga	aacctcagcg	tgaatttggg	ggatttttca	3960
gtggaacctt	tgcccccaaa	tgtcgaccag	cccccaaatg	tcgaagaatt	ttcttcttgc	4020
caattttgtt	gttttaaaaa	aaaatttcagg	gaaaattaaa	aacctggaac	tcc	4073

<210> 315

<211> 6948

<212> DNA

<213> Homo sapiens

<400> 315

ggggctgaaa	gacacacaga	agtcttcatg	gatatagttg	atacatttaa	tcatttaatt	60
cctactgaac	acttagatga	tgccctatatt	ctaggatcca	acctggagaa	tgaagtctgt	120
gaggatttta	gtgcaagtca	aaatgtctta	gaggactcgc	tgaagaacat	gctcagcgat	180
aaggatccta	tgctaggatc	tgcaagtaac	cagttctgtt	tgccctgttt	ggatagcaat	240
gatcccaatt	tccagatgcc	ttgttcaaca	gttgttggtc	ttgacgatat	tatggatgaa	300
ggagttgtta	aagaaagtgg	caatgatacc	attgatgaag	aagaactgat	tttacctaac	360
gggaacttaa	gggacaaggt	agaagaaaa	tcagtggat	ctccaagaaa	atcacctcgt	420
ttaatggcac	aagaacaagt	aagaagtttg	cgacagagca	ctattgcca	gcgttcaaat	480
gcagcaccat	taagtaaac	aaaaaaagca	tctgggaaga	ctgtatctac	tgctaaagca	540
ggagtgaaac	aaccagaaa	gagtcagggt	aaagaagaag	tatgtatgtc	actgaaacct	600
gagtagcata	aggagaatag	aaggtgcagc	cgaaatagcg	gacaaattga	agtggtagct	660
gaagtatcag	tgtcttcaag	tcattcttca	gtgtcatctt	gtcttgaaat	gaaggatgaa	720
gatggattag	attctaagca	taagtgtaat	aatccgggag	aaatagatgt	gccatctcat	780
gaattaaatt	gttcacttct	ttcagagact	tgtgttacta	ttggagaaaa	gaaaaatgaa	840
gctttgatgg	aatgtaaaag	caagcctggt	ggtagtccat	tggttaagtt	ttcagataaa	900
gaagaacatg	aacaaaaatga	ttccatttca	ggtaaaacgg	gtgagactgt	tggtgaagaa	960
atgatagcaa	caagaaaagt	tgaacaagat	tcaaaggaga	cagtaaaatt	atcccatgaa	1020
gatgaccata	ttcttgagga	cgctggatct	tctgatattt	ctagtgatgc	tgcttgtaca	1080
aatccaaata	agacagaaaa	cagccttgta	ggtttgctta	gttgtgtaga	tgaagtgact	1140
gaatgtaatt	tggaaattgaa	ggataccatg	ggtattgctg	ataaaaactga	gaacaccttt	1200
gaaagaaata	aaattgaacc	gttgggttat	gttgaagatg	cggagtctaa	taggcagttg	1260
gagagcactg	agtttaataa	atcaaactta	gaggtgggtg	atactagtac	ttttggaccg	1320
gaaagtaata	tcttggaata	tgctatttgt	gatgtgcctg	acaaaaattc	aaaacagttg	1380
aatgctatag	aaagtactaa	aatagagtcc	catgaaacag	caaaccttca	ggatgacaga	1440
aacagccagt	caagttagctg	ttcttactta	gagtcaaaaa	gtgtaaaaatc	caaacatata	1500
aaacctgtaa	ttcattctaa	gcaaaaacatg	accacagatg	ctccgaagaa	aattgttgca	1560
gcaaagtatg	aagtaataca	tagcaaaaact	aaagttaatg	tcaaaagtgt	gaaacgaaat	1620
actgatgtac	cagaatctca	gcaaaaatttt	cataggccag	tcaaagtctg	aaaaaaacaa	1680
attgataaag	agccaaagat	tcagagtgtc	aattctgggg	ttaaatctgt	gaaaaaacaa	1740
gctcattctg	tactgaaaaa	gacattacag	gatacaaat	tagtacaat	tttcaagccc	1800
ttaaactcatt	ctttgagtga	taagtccac	gctcatcctg	gttgcttgaa	agaacctcat	1860
catcctgcac	aaactggaca	tgtatccat	tctagccaga	aacagtgtca	taagcctcag	1920
caacaggccc	cagcaatgaa	aaccaatagt	cacgtgaagg	aagagcttga	acaccaggcc	1980

gttgagcatt	ttaaggaaga	ggataaactg	aaactgaaaa	aacctgagaa	gaacctacaa	2040
ccccgcaaaa	gaagaagcag	caaaagtttt	tcttttagatg	agccaccatt	gttcattcca	2100
gataacatag	ctaccataag	aagagaaggc	tctgatcata	gctcctcatt	tgaaagcaaa	2160
tatatgtgga	ctcccagcaa	gcagtgtggg	ttttgcaaaa	aaccacatgg	caacagggtt	2220
atggttggct	gtgggagatg	tgatgactgg	tttcatgggtg	attgtgttgg	gttaagtctt	2280
tctcaagcac	agcagatggg	cgaggaagac	aaagaatatg	tctgtgtaaa	atgttgtgct	2340
gaagaagaca	aaaagactga	aatactagat	ccagatactt	tggaaaacca	agctacagtt	2400
gaattccata	gtggagataa	aacaatggag	tgtgaaaagc	ttggattatc	aaaacacaca	2460
acaaatgata	gaaccaaata	tatagatgat	acagtgaagc	acaaggtcaa	aatttttaaaa	2520
cgggagtcctg	gtgaaggcag	aaattcatca	gactgtagag	ataatgaaat	taaaaaatgg	2580
cagctagctc	ctcttcgtaa	gatgggacaa	ccagttttac	ctcggagatc	ctcagaagaa	2640
aaaagtgaaa	aaataccgaa	agagtcctaca	actgttactt	gcacaggaga	aaaagcttca	2700
aaaccaggta	ctcatgagaa	gcaagagatg	aaaaagaaga	aagttgaaaa	aggagtgctt	2760
aatgtacatc	ctgctgcttc	tgcttccaag	ccttctgcag	atcagatcag	gcaaagtgtc	2820
agacattctc	tcaaagacat	tcttatgaag	agacttacag	actcaaattt	gaaggtagca	2880
gaggaaaaagg	cagcaaaagt	tgccacaaaa	atttgaaaaa	agctttttctc	tttttttcgg	2940
gacacagatg	ctaaatataa	gaacaaatat	agaagtttga	tgtttaattt	gaaagatcct	3000
aaaaacaata	tattatttaa	aaaagtactg	aaaggagaag	taactcctga	tcatcttatc	3060
agaatgagtc	cagaagaact	agcttctaaa	gagttagctg	cttgagagacg	aagagaaaac	3120
agacatacca	tagaaatgat	tgagaaaagag	cagagagaag	tggaaacgacg	gccaatcacc	3180
aaaaaactc	ataaagggtga	aatagaaatt	gagagtgatg	ccccaatgaa	agaacaggaa	3240
gcagccatgg	agattcagga	accagccgct	aataagtcac	tggagaagcc	agaaggatct	3300
gaaaaacaaa	aagaggagggt	tgactctatg	tctaaagata	ccactagtca	acacagacag	3360
catctttttg	atctcaactg	caaaatctgc	ataggtcgaa	tggcaccacc	tgtagatgat	3420
cttttcccaa	aaaaagttaa	agttgttgta	ggagttagctc	gcaaaccattc	agacaatgaa	3480
gcagaaagta	tagcagatgc	attatcttca	acctcaaata	ttttggcttc	tgaattcttt	3540
gaggaggaga	aacaggagtc	tccaaagtca	acgttctctc	ctgctccacg	tccagagatg	3600
cctggaaactg	ttgaagttga	gtctaccttt	ctggctcgat	tgaacttcac	ctggaaagggt	3660
tttatcaaca	tgcttctgt	ggcaaaattt	gttaccaaag	cctatccagt	atctggctcc	3720
ccagaatacc	tgacagagga	cctaccagat	agtattcaag	taggtggcag	gatatcacct	3780
cagacagttt	gggattatgt	ggaaaaaata	aaagcatcag	gaaccaagga	aatttgtgtg	3840
gttcgcttca	caccagtaac	tgaagaagat	caaatttctt	atactttgct	ctttgcatac	3900
ttcagtagca	gaaagcgcta	tggagttagct	gctaacaaca	tgaagcaggt	taaagatatg	3960
taccttatte	ctttgggtgc	cacagataaa	attccacacc	ctcttgtgcc	ttttgatgga	4020
cctgggcttg	aactgcatag	acctaattcta	ttgttgggct	taattattcg	tcagaaactg	4080
aagcgacagc	acagtgccctg	tgctagtact	agtcataatg	ctgagactcc	tgaagtgca	4140
ccaccaatag	cattggccacc	tgataaaaaa	agtaaaaatag	aagtttctac	agaagaagca	4200
ccagaggaag	aaaatgactt	ttttaattct	tttacaactg	tattacacaa	gcagagaaat	4260
aaacctcagc	agaatcttca	ggaagacott	ccaacagcag	ttgaaccttt	aatgggaagtc	4320
accaaacagg	agccaccaaa	acctttaaga	tttcttctctg	gcgtgttgat	tggctgggag	4380
aatcaacctc	ctactctgga	attagcaaat	aaacctcttc	ctgtggatga	tatacttcaa	4440
agccttttgg	gcaccactgg	tcaagtatat	gaccaggccc	agtcagtgat	ggaacaaaac	4500
actgttaaag	aaattccatt	tttaaagtga	cagaccaact	caaaaataga	gaaaacagat	4560
aatgtggaag	taactgatgg	tgaaaacaag	gagataaaaag	ttaaagtaga	taatatttca	4620
gaatctacag	ataagtcagc	agaaatagaa	acatcagtag	tagggctctc	ttccatttct	4680
gcagggtctt	tgacgagtct	tagtctcaga	ggtaagccac	cagatgtttc	tacagaagca	4740
tttttaacaa	atttatcaat	tcagtcaaaa	caagaggaaa	ctgtggagag	taaagagaaa	4800
acattaaaaa	gacagcttca	ggaagatcaa	gagaataatt	tgcaagataa	ccagacttca	4860
aatagttctc	catgcagatc	taatgtagga	aaaggaaaaca	tagatggtaa	tgtgagctgt	4920
agtgaaaaac	ttgttgctaa	tacagcgagg	tctccacagt	ttatcaacct	gaaaagggat	4980
cctaggcaag	cagcaggacg	aagtcagcct	gtaactactt	cagaaaagcaa	agatggagat	5040
agttgcccga	atggagaaaa	acacatgctg	cctggcctgt	cacacaacaa	ggagcactta	5100
acagaacaaa	tcaatgtaga	ggaaaagtgt	tgttctgcag	agaaaaactc	gtgtgttcag	5160
cagagtgaac	atttaaaagt	tgcaaaaac	tcaccatcag	tagaaaaacat	acagacttct	5220
caagcagaac	aagcaaaaacc	cttacaggag	gatattttaa	tgcaaaaatat	tgaaactgtg	5280
caccatttcc	gaagaggatc	agcagttagc	acatctcatt	ttgaagttgg	aaacacatgt	5340
ccatcagaat	ttccttctaa	aagcatcacc	tttacttcca	gaagcaccag	cccagaaca	5400
agtacaaaact	tttcacccat	gaggccacag	cagcccaacc	ttcagcatct	caagtctagc	5460
ccacctggat	ttccatttcc	agggcctcct	aattttcccc	cacaaagcat	gtttggattt	5520
ccaccacatt	tgccacctcc	attacttccc	cctccaggct	ttggctttgc	tcaaaatccc	5580
atggttccct	ggccacctgt	tgttcatctc	ccaggtcagc	cacagcgtat	gatgggtcct	5640
ctctcacaag	catcaaggta	tataggcccc	cagaattttt	accagggttaa	agacattcgg	5700
aggccagaaa	ggcgccatag	tgacctctgg	ggtaggcaag	accaacagca	actggatagg	5760
ccattttaata	ggggtaaaag	ggaccgcccag	agattttata	gtgattcaca	ccatttgaaa	5820

agagagcgac	atgaaaagga	atgggagcaa	gaatctgaaa	ggcatagacg	cagagacaga	5880
agccaagaca	aggacagaga	cagaaaaagc	agggaggaag	ggcacaaga	taaagagagg	5940
gcacggttat	cacatgggtga	tcgaggaaca	gatggaaaag	caagcagaga	tagtaggaat	6000
gtagacaaga	agccagataa	acctaagaat	gaagactatg	agaaggacaa	agaacgagag	6060
aaaagtaaac	acagagaagg	agaaaaggac	agggataggt	accacaaaga	tagggaccac	6120
actgacagaa	ctaaaagcaa	aaggtaaaat	ttgcaggctg	cttcaggatt	acatttaaat	6180
aactgttaaa	atgttgtatc	ttgtaaacaa	aagaaagatt	gcctgctagg	atttgtccat	6240
ctttaaaatt	tttactattg	gtcatttgca	gaacagtaaa	ttctgtgtgt	tggtacagag	6300
tgctctgtac	cagtgtctac	catcccttct	tcataccaac	ggcccttagt	tataggaatt	6360
taatatTTTT	aaaagTTTTa	cattgctgta	tattcaaaga	tttgTTTTat	taatatgcaa	6420
taaaggctta	gaaatTTTTag	ttttattcct	taattggtaa	atatggTTaa	ctatggaata	6480
tattttacttc	ctctagttaa	tgctcctttat	ataatgacta	atttgggagt	aatgtgtgct	6540
ctgtaagttt	gtttttaaatt	gcactgtttt	taaagaaact	gtagaggagc	aacaaaaatc	6600
caagcaactt	cataatcaga	ttatgctaatt	cattttagttg	agcagttttt	gaccaagaat	6660
cagaagccca	aggggtacat	ttattgtctt	aatctgcact	cattgaagtc	attttattacc	6720
atatactaca	gctttgtggt	aggccattat	tttcattttc	atttttggct	cttcagaaac	6780
ttgaataactt	aagcttgtac	atgatcttgt	gttttgcctat	cctttttact	gtaaaatgta	6840
aatatttttaa	gggatatttt	gattctaaat	atgataaaat	aatttctcac	ctattttgtg	6900
tgtgtgactt	gaaatttcagt	agtaaaagaa	tttcttcttt	aaagcttt		6948

<210> 316
 <211> 8213
 <212> DNA
 <213> Homo sapiens

<400> 316						
ccccagcgag	aagggcgcgga	cggttgcaac	atcagcggtt	aaattgtaca	gcctttcata	60
ggccggttca	atgcatccgt	actaagattg	ttaaggctga	gggtccctag	cctggggaaa	120
aacgaaagga	ggcagagggg	agggagacgg	gaagggaagac	aaggaggggtg	tagaaaaacgg	180
ggagaggagg	gggcggggaca	gcatggggaa	ggcctcaggt	ttactggaga	gatcgtggcg	240
ttcccataga	aacgtatccc	tcgcgccatg	acccgcgtgt	tagtctcttc	agttccttcc	300
gcgtcgtttc	ttggctgttt	ccgcgccagct	cctttgtgcc	gcgcagaaca	acgagatgac	360
gcatgcgcaa	agcgcagcgg	ccgcataat	aaacgcgaac	ccgggctctt	cctcgtagt	420
ccgcggggac	tcttggcggg	tgaagggtgtg	tgtagcctt	tgctcactc	gagccctggg	480
cgctgcttgc	taaagagccg	agcacgcggg	tctgtcatca	tgtagcgtta	cgggcggtac	540
ggaggaggtta	agaagctgga	gtccgggtgag	ggacgttggg	gtgggtgtag	tgagcactgc	600
gaggccgtag	ggttgtcgcg	gaggttggga	gacggttatt	ccgcgtgctg	aatggcggtt	660
taggagcag	ccagacgaag	ccggagggcag	cgagggcggg	gtgctgaagg	gagacgggat	720
ggcgggtgta	catctctgcc	gagttccgta	ctcttgggca	tttttgtggc	ccaatccagc	780
ctaaagcagg	gttgagatga	cggttttgcg	gttgcccttt	tcggagctgc	ccgcggggcc	840
ccctcccccc	ccgcctcggg	ccggcggtcg	ccattttgcg	cacattgagg	accgtgggtg	900
cgcatttctt	cagcgccttc	ccgccacttc	agcggacaga	tctggccgca	gctgtaagat	960
ctgtgttgtg	tttgagatag	aacgaaattg	gcagctgtga	gctgcatgtt	ctcgtcaaac	1020
aatcggttaa	attgcggaat	gggaatgggg	acgtaatctg	cgactggcgg	ctgggttttt	1080
ttttagttat	ttccagcgcg	gtttatggct	ctggggcggg	gagctggagt	cttggggcgag	1140
cctgtgcctg	ggacgtttgc	cgcgaggagc	gagagccggc	gcagccctgc	tctcctggcc	1200
cgcccccctac	cgaggccctc	ccgcgcgcga	cgcgctgccg	ctgcggggcc	gcgcgctccc	1260
gggtgcgccc	gggctgccgg	gactcatggg	tggggcgggg	ccaggctccg	ccccacgcct	1320
cggtgtatcc	taccacgcgt	ttctgcttgt	gttcgggagg	gtcaccgccg	attattttaga	1380
acgttaagaa	ttttgtcaaa	agtctagttt	ctcggggatt	tgcggaactc	accagtttta	1440
cgactaagtt	ttgtcttgga	tagagggcat	taaattgtgt	ttacccaatc	ttgaggatgg	1500
cccgttttta	ggcaagtaag	taattgaaac	ttgggcccaga	ttttgcataa	cgtgcattct	1560
tctatttgcg	tttttaaaaca	gaaaccaagg	tgtatgttgg	taacctggga	actggcgctg	1620
gcaaaggaga	gttagaaagg	gctttcagtt	attatgggtc	tttaagaact	gtatggattg	1680
cgagaaatcc	tccaggattt	gcctttgtgg	aattcgaaaga	tcctagagat	gcagaagatg	1740
cagtacgagg	actggatgga	aagtaagtaa	gatgtttatga	atcttctgtt	cattaaaaata	1800
tactgtggct	agataatgaa	aatttggatt	ctgaagtctg	gaagagacct	1860	
taaataagctg	gtcatagtgt	taaattgctaa	aggcacacga	aggttaaaga	agatagcgga	1920
gatggagttta	gggcttggta	aagaccgcca	aagtttgttg	ggggggaaagg	agtgggttgg	1980
aagagtgtgt	ggttggaaag	agttcttttt	aaatctataa	gtcctgaata	tatttttaac	2040
tttagaattt	tgtaaatgtt	cttttattag	ggtgtattgt	ggctcccag	tgagggttga	2100
actatcgaca	ggcatgcctc	ttttgataga	ccacctgcc	gacgtccctt	2160	
tgatccaaat	gatagatgct	atgagtgtgg	cgaaaaggga	cattatgctt	atgattgtca	2220
tcgttacagc	cggcgaagaa	gaagcaggta	cttattttta	taaaggaatg	gttgggtattc	2280

T0100-010000

tagttaatca	agtaattctt	ttattagcaa	ggcagaaact	agtgttttcc	tataaacttg	2340
aatgttaatt	gtacaggtgt	atttttacaat	tttgtgtttaa	ttaaaaaaat	gttactatat	2400
taataatcaa	cctgggtcaaa	accttttcagg	tttcttcggt	tgagtcagtc	gccttgattc	2460
agaatgtcac	gagccttatg	atatcatgct	gagggcgctt	gcaaatccga	caattaagat	2520
cctcctagac	cttgaggtga	tcagcataag	aggccagatc	ccctcgagtc	atctacacct	2580
agctttcacct	tattcttttaa	agggcagaaa	atlttgagacg	gtgatcgccg	taacagtata	2640
tttggccttac	aattgggggc	ccctccgggt	ttagaaagag	gaacaccaga	ttgaccacat	2700
tcccaactag	aaaaatcttc	ttgcgtcaat	caagcctcac	ctggctcatt	tggctgtcag	2760
tttgatcgct	gttagattga	agaaaacatc	tagatgcagc	gatcggttat	agatacttct	2820
agatcgctta	gatctactag	accatggggc	aaagaggggt	gacctgcaaa	cttgcaaggt	2880
ttatgttaaa	tacacattac	agtgttttat	attatgtaat	gctaagttgt	aattcagctt	2940
tttaacaaatc	tttttttagg	tagtaaaaaa	aaaaatactc	aacaactaat	aggcccagag	3000
tttattttcca	aatgagacac	taaatttaaa	tagtttttgag	atlttgatttc	agcagaggga	3060
cacaaaactct	taaaaaacgag	ttattgtctg	acattttggt	ttttctctaa	cttgaaaaat	3120
aggtcacgggt	ctagatcaca	ttctcgatcc	agaggaaggc	gatactctcg	ctcacgcagc	3180
aggagcaggg	gacgaagggtg	agatcttggt	taactgaagt	ctttctgtat	tattattata	3240
ttcactgggt	gtccaacaca	gaaaaagctc	attatttttt	ttggagacag	ggtcttgctc	3300
tgtcacccgg	gctggagtag	aggggcataa	ccacgactca	ctgctgcctt	gatgatctct	3360
tgggttttaag	cagttctcct	acctcagcct	cccgagttagc	tgggactgta	ggcactgcca	3420
ccatccccag	ctaatttttta	tttttgtaga	aatgggtctg	cactgtttcc	caggctgggtc	3480
tcaagctcct	gggctcaaac	gatcctcccg	cagtgtctggg	attatgggca	tgagccactg	3540
caccgttccc	cagttgaagt	cttaacaggc	caaaaaaaat	aaaaactgtg	gagatggact	3600
taaaagttctt	tatttttaggt	caaggtcagc	atctcctcga	cgatcaagat	ctatctctct	3660
tctgatagca	agatcagctt	actcagaag	atctaggtct	ggttctataa	aaggatcgag	3720
gtattttccag	tatgtaaacac	tttttttctt	tacttggtgt	tggattgttc	acatcttata	3780
agtagagtgt	cttaaggaca	taattcaaat	ggattgcttc	agggaaatatt	tgagatgtaa	3840
aagttttggaa	tttatgtgta	acttgtaaca	taaataattac	cctagtttca	cagatgaaga	3900
aaagggctac	tagagatttt	aaggcttggt	agggcgtgtg	gtagacaagg	gtcccaagca	3960
atcacagctct	actcaacact	ctgggtaggc	atgttgctat	aaacttttct	ggcttcagat	4020
tggatgatac	tagctctgaa	agatggtaat	tgattttccc	gacaaaaagg	cctattagca	4080
ccaggaaaaag	agatcagaag	caagtagaaa	cattttctcat	ttttgggaatg	atgggggtga	4140
tttgagacac	tggaaaagttg	actagggcag	tagtgtgtac	acagaaatga	atgtggattt	4200
ttttttttaga	ccgttttcaga	cctgaaaaaa	ctaaagaacc	agagctttac	tatttgtaga	4260
aggccttaaa	aggagataga	atggaaaaaa	ttgtaaaata	agtattgcaa	catgtaatta	4320
acaatattgt	tatctgtacc	aacgataaaa	ccgtgggtacg	gaatgctact	gggagttata	4380
ttgctgttta	atagcacaaa	accttttaaat	gcagggaattc	tgaatcttgt	ggtctatttg	4440
agaaagctat	gaaccatctc	tttagataaa	tttaaaaagt	agatatgtca	gtctgatttg	4500
gtttgtctga	cagatttgatg	gctctcaaac	ataacttgat	ccgggaagaa	gcctgacaaa	4560
tggggggcg	ctttcttttc	gtctggcctt	atcacctgaa	ttagtctcag	ttcaggggtc	4620
tggttatttt	catcctgcct	tagcctcctg	agtagctggg	actgccattg	tgtaccacag	4680
tgcccagctg	aggggactgt	gccttaagtg	aggttagttt	tgcttccttc	ataccagtct	4740
catcaaatga	aaaccatgta	tttcccttgg	atattacaca	gtgtttgaga	atgttatacc	4800
tgtacagaaa	ctaaccaatt	gagtgataga	aacaagtaat	tgaaatgggg	gttcccttatg	4860
tctggtaaca	ctttgtttga	cagtggtgta	gacagaataa	ggcaagtgtt	gcactcttgt	4920
tagtttttagc	ttcttttatgc	ctgaccaacc	taatacagtg	ttgagtagtt	aaggaaaattc	4980
ctttggactg	attgatataa	ttgtgttttt	tcactttttt	tattaagatc	cccgtcgagg	5040
tcaagatcaa	gatccagggt	tatttcacga	ccaagaagca	ggtagggtaa	aaatttgatt	5100
atcctttttct	agtttatatg	caccaatata	caaagagttc	aaagtgtttt	taattgttga	5160
aatttttaagt	gttaactcta	aacttaggtt	ttagtgggaa	cacagtacct	tatttggtga	5220
tgtcctatct	attactggct	gactttccct	gaacaaggga	atgtaaaact	atagtgaaga	5280
agaagcttat	gacttggggg	attatattaa	agaggccctt	gttagaactg	ataggtgcac	5340
ggagaagcat	cctgaaatcg	atgtgcttaa	agcagaatgt	aaaagattaa	tcatgatgta	5400
gtaattgagt	cattttttga	aaaacagttg	ttgaaagatt	ggctttttgt	agcaacaact	5460
ggtaggatgt	ttttcagttt	aagtgcagtc	tgacatttta	agcttaggac	atltgggggt	5520
tttacgggtat	tggtgactac	aagaaaggga	ttggttagta	ctctttcttt	aatagaattt	5580
ctcatgtttt	gacagccgag	caaagtccag	atctccatct	ccaaaaagaa	ggtaagctaa	5640
atgttttgtt	gccaaatctt	gcctgtcaag	tgtggcctct	gcagaatttg	tttgcttact	5700
gctttgcagt	ctttgagctc	tttgagaaat	tgggtgctata	tagattaaaa	tactatgcta	5760
agtttctgaa	atactttttt	tttttgattc	agtaacatta	gtttataact	ttgctggaaa	5820
tacttagtca	taaaatgtta	gggtgattat	taagatgtga	ttggctcctg	gagtacttgg	5880
tagaaatttt	ggtaagatag	atgccttttc	cccactgta	caatagatac	aaagtgtgga	5940
gaaaagtctt	ggaaatagtt	acctgocctag	tgtctcttta	tgaccagaaa	acttcaataa	6000
gttgtcatat	ttatctagtg	cttcttaattg	accagaagac	ttcaaatagt	tgtcatattt	6060
aactgcaggt	tgaccttgca	atlttgacaa	ggaggatagc	ctaatttttt	tttttttctg	6120

ggatggagtt	ttcgtctgt	ccccaggctt	ggagtgcagt	ggctcaatct	tggctcactg	6180
cagcctccga	ttccccgggt	caagcaatta	tcctgtctca	gcctcttgag	cagttgggat	6240
tacaggcacc	caccgccaaag	cctggctaata	tttttgtatt	tctagtagag	acggagtttc	6300
accatgttgg	cgagggttgg	cttaaaactcc	tgatcttagg	tgatcacctg	cctcggcctc	6360
tcccaaagtg	ctgggggttac	aggcgtgagc	caccgtgcct	ggccaggsgta	gcctaactct	6420
aagccaggga	caaaaagatga	atatatgtaa	gtttcatgtc	atttttaggt	ctttgctata	6480
ggaaattagt	accttaggcc	acctttgaag	ttattgaaag	ttagtacatg	tacatgagag	6540
tttcaattga	cactaattgg	atccaaaacct	aatgtttttc	tttttagtgc	ttccccatca	6600
ggaagtccct	gcagaagtgc	aagtcctgaa	agaatggact	gaagctctca	agttcacccct	6660
ttagggaaaa	gttactttgt	ttacattatt	ataagggtatt	tgtgatgtct	gtaaagtgtg	6720
acctaggaaa	gataattcaa	ccatctaata	aaaatggatc	tggattacta	tgtaaattca	6780
cagcagtaag	gataatataa	attttgttga	atgtatgaac	atcatatggg	ctgaaaatgt	6840
gggtttctat	ttggcacatt	taaaataacat	gtttctaaact	agatttttga	tttgtgttca	6900
atattaacac	ttcttaattt	gatatatttg	agagtcagac	attataattg	ttaatcctta	6960
ttcatacata	cctacattca	gaattgaaaag	gtgttgggtta	agtcttgaac	atcactattc	7020
tatgcataaa	acttggccag	gatcttaagg	gactttgaaa	attccatctt	acccttgtag	7080
ctctgggtta	gatgacctga	gtcccttatg	atacagcctg	aatgcatcat	gacagatcct	7140
tagttagcta	atccgttttg	agttgggtgt	agtaggtatt	gtatgatcag	tgggtgaagca	7200
agtaggacca	ctgatgtgtc	taaatgagca	tgacagggaac	taaacgaaac	tgattaaatg	7260
tatgagaaat	agaaactgat	ttctggatga	tctttatact	aattgcagct	ttcaggctac	7320
taggtggcat	agtgttaatt	aggactcccc	aagatatggg	gagttctact	ctcaatgggtc	7380
ttgtttcttt	gctttctaca	ttagttaacc	agttttatac	caaaaaatgc	atgtttgagg	7440
aattgtctga	aattgggaca	aaacaccttc	atgtaaaacca	gctttgcaaa	attttccagc	7500
ccagatactc	ttcatctatt	caaattggatt	gtcttattct	gagcaaaagac	ctgttggttaa	7560
tcttcaagct	aggtttttga	gttcccaacc	acaacattct	tctattttgc	caggctgggtg	7620
caaagtaatt	aaagatgtca	atcagaaatg	tcaatgagac	taaagtgggt	ttgtaaatct	7680
cagctatatt	tagcaaacact	ccatgttagct	aatatttttt	ggtagcatct	ggtagacctt	7740
agaatgttac	atagccagta	ggttctttat	tcaaatttta	agtatcttaa	gaatagtagg	7800
gcagtaacag	ttacttttga	gagttttctg	gtcaagcttt	taccaggcac	tctctagcct	7860
tggtaacaaa	aaaaaaaaaa	cctgctgggt	gcccagatac	ctaggcttgt	ccatttttatg	7920
catttcagca	aagtcatttg	agactattgc	aacttgggaa	tactgggtctg	catcaagttt	7980
aattcggtag	tttgaccgct	agtatgtrtg	aagttatttg	gattgttttt	ggaattttga	8040
ctggctgaat	tatggtttgt	ataaagttat	gtgtataaact	ggcaggctta	tttatctgtt	8100
gcacttgggt	agcttttaatt	gttctgtatt	attttaaagat	aagtttactc	aacaataaat	8160
ctgcagagat	tgaacaaata	atcctgatac	ttaatttttg	gaagtgggag	ctc	8213

<210> 317
 <211> 572
 <212> DNA
 <213> Homo sapiens

<400> 317	cgccgcattg	tggtccgctt	ctctgcacta	tgctgggttg	cctcctgaag	gcgctgcgca	60
	gcgactccta	cgtggagctg	agccagtagc	gggaccagca	cttccggggg	gacaatgaag	120
	aacaagaaaa	attactgaag	aaaagctgtg	cgttatatgt	tggaaatctt	tctttttaca	180
	caactgaaga	acaaatctat	gaactcttca	gcaaaagtgg	tgacataaag	aaaatcatta	240
	tgggtctgga	taaaaatgaag	aaaacagcat	gtggattctg	ttttgtggaa	tattactcac	300
	gcgcagatgc	ggaaaaacgcc	atgcggtaca	taaaatgggac	gcgtctggat	gaccgaatca	360
	ttcgcacaga	ctgggacgca	ggcttttaagg	agggcaggca	atacggccgt	gggcgatctg	420
	ggggccaggt	tggggatgag	tatcggcagg	actacgatgc	tgggagagga	ggctatggaa	480
	aactggcaca	gaaccagtga	gtggtgagag	ctctgtcagt	gacaaacact	cctttggcct	540
	gttgaaattg	ctgaagaaca	tcacctaagg	tc			572

<210> 318
 <211> 338
 <212> DNA
 <213> Homo sapiens

<400> 318	caatgcttga	agtataaaaa	gctgagagtg	ttctcgggca	gggagtctcc	agaaccagga	60
	gaagaagaat	ttggacgctg	gatgtttcat	actactcaga	tgataaaagg	gtggcagggtg	120
	cagatgtaga	gaagagaagg	cgattgctag	agagccttcg	aggcccagca	cttgatgtta	180
	ttccgtgtcc	tcaagataaa	caatccttta	attactgtcc	gatgaatgtc	tgcaggctct	240
	tgaggaggta	tttgggggta	cagataatcc	tagggagttg	caggtcaaat	atctaaccac	300

nttaccagaa ggatgaggaa aagttgtcgg cntatgtc

338

<210> 319

<211> 451

<212> DNA

<213> Homo sapiens

<400> 319

tntttttgac	tttaaagat	aaacttttat	tctgaatata	ctgttttttg	acaagattta	60
acacaacatt	ttctgggatt	ataaatat	tataacagta	ttatacaaat	ttttacaaaa	120
tgtttttatc	aggctaggta	attttcacaa	aagtgtcaag	agaacaaaaat	aaaggggaga	180
aaagatctat	tgttcacaaa	agccagttgg	cctttttgcat	gaatgcacac	cattttaata	240
aaagtattcc	taaaagcatg	atccgacact	catacaacac	aacaaaaaag	acagctttac	300
taggtcacat	tataaactca	actggcatct	acacaagaca	gtatcccat	agtttcagt	360
gaatttgaga	taacttgtgt	gaactagaaa	taaggtagat	gaagagttgt	ccaattcttc	420
naaaatctgg	aatttttttt	cacactccaa	n			451

<210> 320

<211> 359

<212> DNA

<213> Homo sapiens

<400> 320

gcctactgca	ccgccgacca	caacgtgagc	cccaacatct	tcgcctgggt	ctacagggag	60
atcaatgatg	acctgtccta	ccagatggac	tgccacgccg	tgnagtgcga	gagcaagctc	120
gaggccaaga	aactggccca	cgccatgatg	gaggccttca	ggaagacttt	ccacagtatg	180
aagagcgacg	ggcggatcca	cagcaacagc	tcctccgaag	aggtttccca	ggaattggaa	240
tccgatgatg	gctgaatgaa	ctttnagacg	cttnagcaaa	ggcagcattg	gtcacggggg	300
tcaaggggaat	tagattgagt	aagcaacggt	tcaaatttgg	gatgaaagat	ttccaaatt	359

<210> 321

<211> 295

<212> DNA

<213> Homo sapiens

<400> 321

cctcactgct	atggggccgca	acaagaagaa	gaagcgagat	ggtgacgacc	ggcggccgag	60
gctcgttctt	agcttcgacg	aggagaagag	gcgggagtac	ctgacaggct	tccacaagcg	120
gaaggtcgag	cgaagaaggg	cagccattga	ggagattaag	cagcggctga	aagaggagca	180
gaggaagctt	cgggaggagc	gccaccagga	atacttgaag	atgctggcag	agagagaaga	240
ggctctngag	gaggcagatg	agctggaccg	gttggtgaca	gcaaagacgg	agtcg	295

<210> 322

<211> 406

<212> DNA

<213> Homo sapiens

<400> 322

caaaaagctg	gtngcctcca	gacccgactt	tttcaaccag	gagcaccaga	cacgggatgt	60
ggactgtgtc	ctcacaacag	gagaagtttt	caggttgctg	gnngnagagg	gggctcgggg	120
ggctaccttg	agcacgtggt	ccggcacgcg	gcccagagag	tctttggaat	ccatgtggct	180
gaggttacct	acaaaccctt	gaggaacaaa	gacttccagg	agggtgacact	ngagaaggag	240
ggccaggtgc	tgctgcactt	cgcaatggcg	tacggcttcc	gcaacatcca	gaacctggtg	300
cagaggctca	aacgagggcg	ctgcccctac	cactacgtgn	aggteatggc	ctgcccctca	360
ggctgcctga	acggcggggg	gccagctcca	ggtcccagac	aaggcc		406

<210> 323

<211> 489

<212> DNA

<213> Homo sapiens

<400> 323

tttttttttaa cattcctaag tttcttttatt cttcatagtt ttctaatagaa caaatagtta 60

gttttcctga	gtaagattat	aaaaaagtta	accattcttc	caaaagtata	aagacaaata	120
aaatgtcgac	tcataataca	aattttttac	atagcattaa	aggtgcagat	attgactgcc	180
cctcttcatt	atgattggcc	caccccttaa	aaagactgca	acagaggatt	caattgtcta	240
aaatacttcg	aagtacagaa	attaaatgct	ttagcccata	aacatatccc	tcattctattg	300
tggttgctagg	gaacacatga	gcaaaaatcta	tcattcgcac	ttctactcca	gcaatctctt	360
ggcaaccagt	gggaagatgg	tagaaaactt	tntccagttg	ggaaagtaca	tttccattta	420
aatgttcctg	tgacatgctt	ttccacccat	tgtcttgctc	cagattttca	actttcaatg	480
aagtctgac						489

<210> 324

<211> 491

<212> DNA

<213> Homo sapiens

<400> 324

taaggattaa	aaacgatttt	aattatacac	atatgggtcac	aattttgcct	taaaaagatt	60
gttgggaaat	gtacataagg	ccgcttgtaa	atgtacatcg	tgttactgtt	atgtcttatg	120
tccagaggaa	aaaatgttat	catacagatt	tgtctttact	tgggagtagg	ctattcaaaa	180
atacagtact	cttctgtaca	aagaaaaaag	tcacatcaca	tttaataaga	tgaaaaaagc	240
attggcctcc	atggtaacca	aatatctcag	tccaataactt	tctattatgc	acaataccct	300
gacttcaatt	gaaagtgatc	caaattctag	cagggtccata	ttaacagtca	acaactatgt	360
tataaaaaca	aatgatctca	caataataaa	aagaaaagctg	gttcataact	ctgaaaccat	420
ataaagataa	aaaattttta	aaaaatcact	ctcgatttgg	agaaataaat	ttacattata	480
caacactata	c					491

<210> 325

<211> 546

<212> DNA

<213> Homo sapiens

<400> 325

cggcacgagg	gacaacgcag	cctgataaac	aagtggacga	cttttcttaa	ggccagactg	60
atttgctcaa	ttcctggaag	tgatggggca	gatacttact	ttgatgagct	tcaagatatt	120
tattttactcc	ccacaagaga	tgaaagaaat	cctgtagtat	atggagtctt	tactacaacc	180
agctccatct	tcaaaggctc	tgctgtttgt	gtgtatagca	tggctgacat	cagagcagtt	240
tttaattggtc	catatgctca	taaggaaagt	gcagaccatc	gttgggtgca	gtatgatggg	300
agaattccct	atccacggcc	tggtacatgt	ccaagcaaaa	cctatgaccc	actgattaag	360
tccaccogag	attttccaga	tgatgtcatc	agtttcataa	agcggcactc	tgtgatgtat	420
aagtccgtat	accagtttgc	aggaggacca	acgttcaaga	gaatcaatgt	ggattacaga	480
ctgacacaga	tagtggtgga	tcatgtcatt	gcagaagatg	gccagtacga	tgtaatgttt	540
cttgga						546

<210> 326

<211> 456

<212> DNA

<213> Homo sapiens

<400> 326

gcacgagtct	acatccagag	gaccaagagc	atgtttccaga	ggaccacgta	caagtatgag	60
atgattaaca	agcagaatga	gcagatgcat	gcgctgctgg	ccattgccct	cacgatgtac	120
cccatgcgta	ttgatgagag	cattcacctc	cagctgcggg	agaaatatgg	ggacaagatg	180
ttgcgcgatgc	agaaagggtga	cccacaagtc	tatgaagaac	ttttcagtta	ctcctgcccc	240
aagttccctgt	cgctgtagt	gcccactat	gataatgtgc	acccaacta	ccacaaagag	300
cccttctctgc	agcagctgaa	ggtgttttct	gatgaagtac	agcagcaggc	ccagctttca	360
accatccgca	gcttcttgaa	gctctacacc	accatgcctg	tggccaagct	ggctggcttc	420
ctggacctca	cagagcagga	gttccggatc	cagctt			456

<210> 327

<211> 462

<212> DNA

<213> Homo sapiens

<400> 327

tttacaggta	cacaatttaa	tattttattat	atgcatttta	tatacattat	ttttcaacag	60
------------	------------	-------------	------------	------------	------------	----

ctgtatgttt	gctatgtggt	acaatcttaa	aaatttgctg	attcatagtt	tgtaaaacaa	120
aaacottaca	aaactcatca	aaactcgcaa	actgatcaga	aaagtttttc	ggaagactag	180
aaaaaatact	ttattgtctt	aatcatgcat	tacacaaaca	aaatcttttag	ttacaccata	240
aaattaagca	catctaaaaa	aataaaaacag	ggataaactag	tcaaaaacaca	gcagattttct	300
gtatcctgat	tcaactatth	ttgtatccta	tttgtaatgc	aaataaaaact	ttactccaaa	360
tattttttaa	caagttagtt	ttgtttggaa	tcattggtaaa	ccaagatata	tatcttaggg	420
ggaaccacct	tggtttgtaa	tttaaaactat	aaaatactcc	at		462

<210> 328
 <211> 457
 <212> DNA
 <213> Homo sapiens

<400> 328						
caattaagg	ctttggcggg	attggctccg	cgtttgggct	ggtcgcctgc	tccccaccta	60
ccagggtcgg	atccggagcc	cttccccgcg	ggcgccggac	ctccaaacaa	ccgactcctt	120
tccagctgaa	gaaacactta	aattctggaa	atagcgactc	agtatcatgg	ccagcagcct	180
taatgaagat	ccagaaggaa	gcagaatcac	ttatgtgaaa	ggagaccttt	ttgcatgccc	240
gaaaacagac	tcttttagccc	actgtatcag	tgaggattgt	cgcattggcg	ctgggatagc	300
tgctctcttt	aagaagaaat	ttggaggggt	gcaagaactt	ttaaatcaac	aaaagaaatc	360
tgagagaagt	gctgtttctga	agagagatgg	gcgatataata	tattacttga	ttacaaagaa	420
aagggtctcg	cacaagccaa	cttatgaaaa	cttacag			457

<210> 329
 <211> 448
 <212> DNA
 <213> Homo sapiens

<400> 329						
tttttttttt	ttttatgatg	cactccaagt	gccatatgtc	tattttatct	ttcaggaaat	60
tatatatttt	ttttacaaga	gcacaacagg	aaccaaaagta	aaagagtaat	agatacagca	120
ctcaggataa	atcatatctt	taaaataata	ataaaaaaat	ttacaccttg	tcctatatoc	180
tgttagtatt	ttcataatat	ggccatgatt	gaaaaaaacaa	aaagcaagca	tctacaattt	240
tttttgataa	agacttttta	tgccagggaat	ggattaatta	ccaacaaaat	ttataactaat	300
caggctgatg	tcaatctatt	tttgtaatgt	atcattaaca	aattttatct	ggaaaagata	360
aaaatatttg	cccttgataa	taaatctttt	tttcctttga	tgcaaacagc	tagaacacct	420
ttttcttttt	cttttttgata	ttctaaga				448

<210> 330
 <211> 373
 <212> DNA
 <213> Homo sapiens

<400> 330						
gttgcaacatg	ccgtcggcca	tgactgtgta	tgctctgggtg	gtgggtgtctt	acttctcat	60
caccggaggga	ataatthtatg	atgttattgt	tgaacctcca	agtgtcgggt	ctatgactga	120
tgaacatggg	catcagaggg	cagtagcttt	cttggcctac	agagtaaatg	gacaatatat	180
tatggaagga	cttgcattcca	gcttctctatt	tacaatggga	ggattagggt	tcataatcct	240
ggaccgatcg	aatgcacca	atatcccaaa	actcaataga	ttccttcttc	tggttcattgg	300
attcgtctgt	gtcctattga	gttttttgat	ggctagagta	ttcatgagaa	tgaaactgcc	360
gggctatctg	atg					373

<210> 331
 <211> 306
 <212> DNA
 <213> Homo sapiens

<400> 331						
ggcgaagagg	accaggacta	tgacatcacc	cagctccacc	gaggtctgga	ggccaggccg	60
gaggtgggtc	tccgcaatga	cgtggcacc	accatcatcc	cgacacccat	gtaccgtcct	120
cggccagcca	accagatga	aatcggcaac	tttataattg	agaacctgaa	ggcggctaac	180
acagacccca	cagcccgcg	ctacgacacc	ctcttggtgt	tcgactatga	gggcagcggc	240
tccgacgccg	cgtccctgag	ctccctcacc	tcctccgcct	ccgaccaaga	ccaagattac	300
gattat						306

<210> 332
<211> 626
<212> DNA
<213> Homo sapiens

<400> 332
tcacgtatcg caaggggctt ttattggatt agttgcgtgg gggaatcagt tcttcccag 60
agcagcaagt gcaggcatta gtgtacagaa tccagaggaa gggcaggctg cttgggtgag 120
gcctactcgc ctggagacat gtggagttct ctaggggtct gcagccacct cggggagctg 180
ggagattccc tcccagacac tctacatat aggaagggtga tgcttctatc tcattccgca 240
cggcttttcc tgcgggtattc ctgtagcgcc ttctccgcca ctgtgtocat aaacttaggg 300
ttatccttag agacttcttc tggtaacacc actgtgatgg ggtcagagtc aaacagcttc 360
accaccacct cagtgcacag ggangggacc tctgagtcag aggaatgggt ggtcacgggt 420
gagaccgaa ggtagtagt tgtcttcgnc ctgtgtgaag gttagccaac tgggaaaccc 480
agtttgaact ggtcggtcag cttgctccag caggggaatga ggtgttgagc atctttcgac 540
tggaaagact gcagcagttc cctgtantgc tctgttagcc tttcggcacc tggagcgagt 600
cgttaagtcc tgggcagggt agctgg 626

<210> 333
<211> 4898
<212> DNA
<213> Homo sapiens

<400> 333
gaattccggc tggcaggggc gtccgggttac atccccgct tctctgtcc tggccgcggg 60
accgggtttg cgggaccgca gttcgggaac atgttggcct cgagcagccg gatccgggct 120
gcgtggacgc gggcgctgct gctgccgctg ctgctggcgg ggctgtggg ctgcctgagc 180
cgccaggagc tctttccctt cggccccgga cagggggacc tggagctgga ggacggggat 240
gacttcgctc ctctgcctt ggagctgagt ggggcgctcc gcttctacga cagatccgac 300
atcgacgcag tctacgtcac cacaatggc atcattgcta cgagtgaacc cccggccaaa 360
gaatcccatc cggggtctt cccaccaaca ttccgtgcag tccccccttt cctggcgagc 420
ttggacacga ccgatggcct ggggaagggt tattatcgag aagacttatc cccctccatc 480
actcagcgag cagcagagtg tgtccacaga gggttcccgg agatctcttt ccagcctagt 540
agcgcggtgg ttgtcacttg ggaatccgtg gccccctacc aaggggccag cagggaccca 600
gaccagaaag gcaagagaaa cacgttccag gctgttctag cctcctctga ttccagctcc 660
tatgccatct tcttttatcc tgaggatgggt ctgcagttcc atacgacatt ctcaaagaag 720
gaaaacaacc aagttcctgc cgtgggtgca ttccagtcaag gttcagtggg attcttatgg 780
aagagcaacg gagcttataa catatttgct aatgacaggg aatcaattga aaatttggcc 840
aagagttaga actctgggca gcagggtgtc tgggtgtttg agattgggag tccagccacc 900
accaatggcg tgggtgcctgc agacgtgatc ctccgaactg aagatggggc agagtatgat 960
gatgaggatg aagattatga cctggcgacc actcgtctgg gcctggagga tgtgggcacc 1020
acgcctctct cctacaaggc tctgagaagg ggaggtgctg acacatacag tgtgcccagc 1080
gtcctctccc cgcgcggggc agctaccgaa aggccctctg gacctccac agagagaacc 1140
aggctcttcc agttggcagt ggagactttt caccagcagc accctcaggt catagatgtg 1200
gatgaagtgt aggaaacagg agttgttttc agctataaca cggattcccc ccagacgtgt 1260
gctaacaaca gacaccagtg ctccgtgcac gcagagtga gggactacgc caggggttc 1320
tgctgcagct gtgtcgctgg ctatacgggc aatggcaggg aatgtgttgc agaaggttcc 1380
ccccagcgag tcaatggcaa ggtgaaagga aggatctttg tggggagcag ccaggtcccc 1440
attgtctttg agaacactga cctccactct tacgtagtaa tgaaccacgg gcgctcctac 1500
acagccatca gcaccattcc cgagaccgtt ggatattctc tgcttccact ggccccagtt 1560
ggaggcatca ttggatggat gtttgcagtg gagcaggacg gattcaagaa tgggttcagc 1620
atcacccggg gtgagttcac tcgccaggct gaggtgacct tctgtgggca cccgggcaat 1680
ctggctatta agcagcggtt cagcggcatc gatgagcatg ggcacctgac catcgacacg 1740
gagctggagg gccgcgtgcc gcagattccg ttccgctcct ccgtgcacat tgagccctac 1800
acggagctgt accactactc cacctcagtg atcacttctt cctccacccg ggagtacacg 1860
gtgactgagc ccgagcgaga tggggcatct ccttcacgca tctacactta ccagtggcgc 1920
cagaccatca ccttcagga atgcgtccac gatgactccc ggccagccct gccagcacc 1980
cagcagctct cgggtggacag cgtgttcgtc ctgtacaacc agggaggagaa gatcttgcc 2040
tacgctttca gcaactccat tgggcctgtg agggaaggct cccctgatgc tcttcagaat 2100
ccctgctaca tgggcaactca tgggtgtgac accaacgcgg cctgtcggcc tgggtcccag 2160
acacagttca cctgcgagtg ctccatcggc ttccgaggag acgggcgaac ctgctatgat 2220
attgatgaat cttcagaaca accctcagtg tctgggagcc acacaatctg caataatcac 2280
ccaggaacct tccgctgcga gtgtgtggag ggctaccagt tttcagatga gggaaacgtgt 2340
gtggctgtcg tggaccagcg ccccatcaac tactgtgaaa ctggccttca taactgcgac 2400

ataccccagc	gggcccagtg	tatctacaca	ggaggctcct	cctacacctg	ttcctgcttg	2460
ccaggcctttt	ctgggggatgg	ccaagcctgc	caagatgtag	atgaatgccá	gccaagccga	2520
tgtaaccctg	acgccttctg	ctacaacact	ccaggctctt	tcacgtgcca	gtgcaaacct	2580
ggttatcagg	gagacggctt	ccgttgctg	ccgggagagg	tggagaaaac	ccgggtgccag	2640
cacgagcgag	aacacattct	cggggcagcg	ggggcgacag	acccacagcg	acccattcct	2700
ccggggctgt	togttcctga	gtgcgatgcg	cacgggcact	acgcgcccac	ccagtgccac	2760
ggcagcaccg	gctactgctg	gtgcgtggat	cgcgacggcc	gcgagggtgga	gggcaccagg	2820
accaggcccg	ggatgacgcc	cccggtgtctg	agtacagtgg	ctcccccgat	tcaccaaggga	2880
cctgcggtgc	ctaccgccgt	gatccccctg	cctcctggga	cccatcttact	ctttgcccag	2940
actgggaaga	ttgagcgctt	gcccctggag	ggaaatacca	tgaggaagac	agaagcaaag	3000
gcgttccttc	atgtcccggc	taaagtcatc	attggactgg	cctttgactg	cgtggacaag	3060
atggtttact	ggacggacat	cactgagcct	tccattggga	gagctagtct	acatgggtgga	3120
gagccaacca	ccatcattag	acaagatctt	ggaagtccag	aaggatatcg	tggtgatcac	3180
cttgggccgca	acatcttctg	gacagactct	aacctggatc	gaatagaagt	ggcgaagctg	3240
gacggcacgc	agcgccgggt	gctcttttag	actgacctgg	tgaatcccag	aggcattgta	3300
acggattccg	tgagagggaa	cctttactgg	acagactgga	acagagataa	ccccaaagatt	3360
gaaacttctt	acatggacgg	cacgaaccgg	aggatccttg	tgcaggatga	cctgggcttg	3420
cccaatggac	tgcaacttga	tgcgttctca	tctcagctct	gctgggtgga	tgcaggcacc	3480
aatcgggcgg	aatgcctgaa	ccccagtcag	cccagcagac	gcaaggctct	cgaagggtct	3540
cagtatcctt	ttgctgtgac	gagctacggg	aagaatctgt	atttcacaga	ctggaagatg	3600
aattccgtgg	ttgctctcga	tcttgcaatt	tccaaggaga	cggatgcttt	ccaacccac	3660
aagcagaccc	ggctgtatgg	catcaccacg	gcctgtcttc	agtgtccgca	agggccataac	3720
tactgctcag	tgaacaatgg	cggctgcacc	cacctatgct	tgggccacccc	agggagcagg	3780
acctgccgtt	gcccctgacaa	caccttgga	gttgactgta	togaacggaa	atgaagacaa	3840
gagtgcctta	tttccctttcc	aagtatttca	cagcaacact	ctacttgaag	caacttggtc	3900
cagattgaaa	agtgtcctct	ggctgagtgg	ccactaggcc	cagacccagc	ccagcctgag	3960
ccccaacaac	aacttttccc	tcactgttcc	ccaaaacatg	cacctgggac	ttctctaata	4020
gaaaagctct	cacccttaca	caaggacaga	accctccacc	cctaccccca	accctcagac	4080
agacttatac	acccctgagt	gaggattaca	tgccccatccc	agtgtcctag	gaccttttcc	4140
caatactagc	cccccagtg	tgaacagaa	ctcccaaat	tgagttgcac	ccttccctgt	4200
ggccttatga	gctcagcctc	gctttgaggt	acccaccgtc	ctgtcagctc	cttgacctat	4260
gagctggggc	ctgactagga	aaagtgtgga	gttaaggagg	aaattagcat	tocttaattg	4320
tttgttttgg	tgtcttgaat	ttcttcttta	ttatagtctt	atagttttac	toctcagttc	4380
ctcaccatca	tcactctgtc	taagaccccc	attataatat	toatgcgctg	ctttttcatc	4440
aaaacctacc	ctgtcctaga	gatctatggg	catttggtgg	atgataatga	gcagccccctc	4500
ccagatagaa	tgtcaatat	tgagcagtag	gatatgggca	tttgttagtt	aaaggcttaa	4560
atcaaaagaa	tggtccaattg	taggaatttc	aaggtgtagg	tcagataatt	gagaatagg	4620
gatttttttg	atgtgcctta	aattatacca	aagattacta	attattcctc	tttgcccaaa	4680
atacttgcat	ccaaggttct	agtctctgtt	gctgtgctgg	tcttttagccc	cactgctggc	4740
actgatgtcc	ctcctttttc	acggagacct	atctgaggta	caggatgggg	ctggcaccag	4800
atgatgtccc	accacagtc	ctcacctccg	gcctccacat	gacagaacca	atttacactc	4860
aaccatgacc	tcacccctcc	ttgggtttctc	cctccccg			4898

<210> 334

<211> 429

<212> DNA

<213> Homo sapiens

<400> 334

tgtttctggag	gcnagcgggg	cnngnctgt	gacaactgcc	ngtagacctg	gggctgctga	60
acccagtcoc	gatggcacca	ccggccacac	ctacaaccag	tatacacaga	gatacaatca	120
gagaacaaac	actaacgtaa	attgccccat	tgagtgtctc	atgccgctag	atgtgcaagc	180
tgacagagac	gattctcgag	agtaatcttt	ccagccccac	ccgtacaagt	gtntnnctac	240
caagggtcaat	ccacacccca	gtgatgttag	cagacctcc	atctttgagt	ggctcctttca	300
cccttaagcc	ttttgctctg	gagccatggt	ctcagcttca	gacaatttac	agcttctcca	360
agcatcgccc	gtggattggt	ttgagacttc	tctcctcaat	ggtgacagtt	ggtcacctgt	420
tctgcttca						429

<210> 335

<211> 411

<212> DNA

<213> Homo sapiens

<400> 335

<210> 346
<211> 255
<212> DNA
<213> Ratte

<400> 346
acaagctttt tttttttttt tttttttttt ttttttttct atttcatact ctttattgcc 60
aagagttcaa aatggtcaac ataaaaaaaa aagacatctt gataataaat actgctcttg 120
gggctgtaat aaataaaaaag tttattaaca aggaatgcac ttttccagcc acaagtgtat 180
tcaaaaaataa ccaaaaaaaaa aatatgtatg gccatagttc acagttaagc agccaaacaa 240
aagctgctct gattg 255

<210> 347
<211> 255
<212> DNA
<213> Ratte

<400> 347
accatcacag tgaccagaag ggtcacagcc tacactgtgg atgtgaccgg tcgggaagga 60
gtgaaggaca ttgacatcag cagccctgaa ttcattgatca agataccgag gcacgaagtg 120
actgaaatctt ccaacacaga tgtggaaacc cagcctggga aaacagtgat ccgactgccg 180
tcgggatccg gggcagcctc tccaaccacg ggctctgctg tggatatccg ggcagggtgcc 240
atttctgcct cagga 255

<210> 348
<211> 250
<212> DNA
<213> Ratte

<400> 348
acatggacat ggtcaaggag cggatcgacc gcttcgggtgg atataaatct ccgagggtgcg 60
aggcacctgg taatggatga catgctgaac ttttaggaata tocagacccc gagctgccac 120
gtctgtttgcc aagagaacac agtcttccag ccgagcaaac tgctccaggt ttctgagcct 180
ttgcttctgg tgcattgcagg catgcagggt cagtggcatg atatccaaga ccttgaggag 240
cccagagggg 255

<210> 349
<211> 255
<212> DNA
<213> Ratte

<400> 349
acttcacgag gatcttggcc aggatatgtt tgtctttgat gatatactcg taggtgggtca 60
ataagacatt gaacttgccg ctgcgaagct gggggacaaa agctcgtctg gcagctggag 120
agcccttgta ggaaaccttc accacagagg gggcccaatt gtcaaattca tatgccaggt 180
ttgacagcgt cctgaaggga aaggaaggga tagtcagggt ctacactagg caatagtgaa 240
gccaacaggc ctggt 255

<210> 350
<211> 255
<212> DNA
<213> Ratte

<400> 350
aagctttttt tttttttttt tttttttttt tttttgggga agtgaggatt tattaagaat 60
attaaaggcc aggaattttt ttttaaccat aaaccctaag ttttctttta gtgcttcaaa 120
aatccattat catttaagac cagataaatt acatggctaa ccagctgtcc agtgctgagc 180
ctaaaaaata acctccaatg gaacaagacc gagctcagcc actgaaccaa ggggtgcagg 240
gtggtcacgc ctctc 255

<210> 351
<211> 255
<212> DNA
<213> Ratte

<400> 351
actttacctgg tggctccctt gtggtttcttc tgggtgcaag agtgtccggg tcacagaaaag 60
ctatttcatc tgggtggccaa aaaagagtga cttcaaggcg ttcagcagat atgcagtctt 120
caaatacaga catttctttt aaaaccagga aaaggctaaa cttcgaagat aaagtatttt 180
cgaacacagc agaaatagag agcagtgcat cacaagtaga ggatagcata tccgaggaac 240
aagaagggac atcat 255

<210> 352
<211> 109
<212> DNA
<213> Ratte

<400> 352
ggcttcatca ccactcggta gttgtaattt cgccttttat cagaagctga tacattttca 60
tcagcatcgg atcgaatttc tatgtattca atatcttgcc cacgatagg 109

<210> 353
<211> 251
<212> DNA
<213> Ratte

<400> 353
accagaggcg aggatcgctt cagctctggc agtttctggg agctcttctg gatgaccctt 60
caaattctca ttttattgct tggactgggc gaggcattgga atttaaactg attgagcctg 120
aagaggtggc ccgacgttgg ggcattcaga agaacaggcc agctatgaac tatgacaaac 180
ttagccgttc tctccgctat tattatgaga agggaatcat gcaaaagggtg gctggagata 240
gatatgtcta c 251

<210> 354
<211> 255
<212> DNA
<213> Ratte

<400> 354
acaagctttt tttttttttt tttttttttt ttttggtaaa aatagtttta ttctccttca 60
aacataaacc atcactcttg ggggaaggga ggtggcaggg tgggccacgg ctcacttgaa 120
tggggtgggg ggagattaag aagtcccacc ccactgccta gctgagataa gattacatcc 180
ctaacactgt gtataaatat ctcccttatat taaaacaatt tttcagggtc cacttcactc 240
tacctcaagc tggga 255

<210> 355
<211> 255
<212> DNA
<213> Ratte

<400> 355
acagactgtg acgagataca gtttaaggag gatggctcgt gggctccgat gaggtcaaaa 60
aaagggaagt caagaagtca ctgcctccta caatggggtc gatggatgct tgagctccac 120
attggagcat cagggtggctt cccacaacca gtcttcaaata aaaaacaaga aagtggaggt 180
gattgacctt accattgaca gtccatcaga tgaagaggag gaagaacccc ctgccaaagag 240
gacctgtcct tccct 255

<210> 356
<211> 199
<212> DNA
<213> Ratte

<400> 356
cttatcccca aggggtgctga gaattccaaa gggttatgact ttgaaattaa gtttaatcct 60
gaggctgggt ccaactgcct tgtcaaatac gggactcaag tgtatgcacc tctcaaagaa 120
ctcttgaatg aaatctaaga agaaattagc tnancctctga ataaaaagat gggctctggag 180
gatactttac aacgactga 199

<210> 357

<211> 255
<212> DNA
<213> Ratte

<400> 357
actggcacat gagacctaga gcaggaccaa cttctcacac atagtcagtg ggaaaagaaa 60
gtgccttgaa agttcctccc tcacctacac agtagtcgtc atgtcgagac ctgccagaga 120
gagacacatt ctcaagtga tccctggcttc ttggaagcgc ttgcctagac gagacacagt 180
gcattaaaaac aacttttggg ggacaggtat gtttttcttg cagctgcagt tgtaaggtct 240
tggcaagacg agcag 255

<210> 358
<211> 255
<212> DNA
<213> Ratte

<400> 358
acacgcacaaa cacatcaaaa agtgatcaag gagttgcaaa acagaaagtt aacacagtgg 60
tagatgcaac cagagtgaag cgctgggtcaa agaccctgt caaaatgaca taccctctag 120
aaggtgcagc tgatttcacg gagcactttg aaacaccaga tctcaaagat gaacccatag 180
gtgatgatga aactaaagtc ctttgcaaat cccacacaacc caaaacagag aacctcaagg 240
caagcgcaaaa gccac 255

<210> 359
<211> 255
<212> DNA
<213> Ratte

<400> 359
cgtcaagtcg gcaaaagaca acgaanggyc ccccgnnccc nnnnggataa aatgcygct 60
gttttcyctc gtggccgggt ttttttgttt ttggtctann nnnnnannga aannannnaa 120
ngaaaccccn tcactaattt tttcwwanat actaaaatat ccaacygmag aatcatttc 180
ggcacatccc gacctccgat ctccctgttt ttaataactg tagaaaagca tctgtgtcca 240
cttgttggcc gaaga 255

<210> 360
<211> 255
<212> DNA
<213> Ratte

<400> 360
accagagtan ataagaagtg agttttattc aaattttaatg caggaatcac aacatantta 60
ccgcttcaat ttcttcacac tgatgaattc ttttgctgtt aacacacaaa ttcacctgtt 120
gggcttggct gctaaaacat tctaccgaat gacgggtaca ttttcttcat ctactttgca 180
aacaacgaac acctgcgcc gcaccattt tccgctgtta tttatgctgt gatgaactga 240
tgcgtgactc cccac 255

<210> 361
<211> 255
<212> DNA
<213> Ratte

<400> 361
actcaggaaa acacaacggt atttgcattt acttttctcg aatcatggga aatatttggg 60
atgctagctt agttgttgaa agagtattca agagttccaa cagggagatc actgcaattg 120
aaagcagtggt gcctatccag ctgctggagt cagtgttaca ggaactgaag ggtttgcagg 180
aattttctaga cagaaattct cagttttcag gaggaccact aggaaatcca aataccactg 240
ccaaagtgca gcaga 255

<210> 362
<211> 255
<212> DNA
<213> Ratte

<400> 362
 ataaaaaacca tccctctgtg catcctctgc tccctcagg ttggaagcca ggactcctag 60
 tcagctagtc ctggccgctc tatcacagcc tccaagggaa gagctgcctg cgagaggcct 120
 tcctagacca caaccatgt tgcaacaagg cagggcctgt tccgggtcct acctcccagc 180
 agagtggacc aggttgagcc tccccccatc acatacacac tgtgttgctt gcagtaactg 240
 gcagctctgt tcctt 255

<210> 363
 <211> 255
 <212> DNA
 <213> Ratte

<400> 363
 tgccagtc aa gctgcgggtg attgataccc tgcgtatggt tacagaagga aagattttatg 60
 ttgaaattga gcgtgccagg ctgactaaaa ccttagcaac tataaaagag caaaatggcg 120
 acgtgaagga ggccgcctcc atcctgcagg agttacaggt ggaaacctat gggctctatgg 180
 agaagaagga gcgagtggag tttattcttg agcagatgag gctctgccta gccgtgaagg 240
 attacattcg cacac 255

<210> 364
 <211> 255
 <212> DNA
 <213> Ratte

<400> 364
 accacgtc aa acgcagatga ggctgtggct agagggtgcg cactgcagtg tgcaattctt 60
 tctccggcat ttaaagttag agagttotcc gtcaccgatg cagttccttt cccaatatct 120
 ctggtctgga accatgactc agaagaaaact gaaggtgttc acgaggtgtt cagtcggaac 180
 catgctgctc cttttctcaa agtgcctcacc ttcctgagaa ggggaccctt tgaactataa 240
 gctttctatt ctgac 255

<210> 365
 <211> 255
 <212> DNA
 <213> Ratte

<400> 365
 acattgatca agaagaactc aacaaaacaa agccgatctg gaccagaaat cctgatgaca 60
 ttacgaatga agaatacgga gagttctaca agagcttaac caacgactgg gaagaacatt 120
 tggcagtaaa gcatttttct gttgaaggac aattagaatt ccgggctctt ctttttgtcc 180
 caagacgcgc tccttttgat ctatttgaaa acagaaagaa aaagaacaac atcaagttgt 240
 atgttcgcag agttt 255

<210> 366
 <211> 251
 <212> DNA
 <213> Ratte

<400> 366
 acctgtggtg tgacatgtgc aaagattctg cctgcttttc gactatgaag gagacagacc 60
 tggaggctgt tgcaacagca gtccaaaggg tggctgggat gcttcagcgc ccagaccagc 120
 tggacaaagt ggagcagtat cgcagaaggg aggctcggaa gaaggcatct gtggaggcca 180
 ggctaaaggc cgcaatccag tctcaactag atggcgctccg cacaggccta agccaactgc 240
 acaatgcact g 251

<210> 367
 <211> 255
 <212> DNA
 <213> Ratte

<400> 367
 acagaggcct gaaggagtca atgaagccca cgtcagcagt caggtttggc aggaacccaa 60
 agtgggtgct tctccagtt atcagccaga tgatgaggaa caggatgcag cgagcaatag 120
 caaggaggag aatgctgggt acaaaaacagc ctgcgccgcg actgaggtaa tacacaccta 180

ctctcatttc tgctggccag agaggggaaga ggggtggcagc tattactgca atcacaagaa 240
ttaatcccat gacaa 255

<210> 368
<211> 255
<212> DNA
<213> Ratte

<400> 368
ctttttttttt tttttttttt tttttttttt ttttctcag aggccttttat tgatttctgt 60
gcccagcaaa cagtgggaatt tggaggagtg aggygagagc cttcggggag ttaagcacag 120
gacagcaggt ggggaataagc caggatgagg ctccatnhnc aactccccaa ggacaagaca 180
gccagcaaaa catgtgtcag gtgcagcagc actctcagtg ccgggggcac ttgggtgggc 240
ttgggggata cctgg 255

<210> 369
<211> 255
<212> DNA
<213> Ratte

<400> 369
accccgagaga ggtgtcccg gttccgggtc cagatcactc cctagcacct aagcraagcc 60
aagattttcca agccagcacc ttattgggaa ggracagctg tgataaacgg agaattorag 120
gagctcaaat tgaccgacta tcgtgggara kacttnnttw tgggcttcta cccactggat 180
ttcacctttg tgtgtccaac tgagatcacc gcttttgggg atcgaattga agaattcaaa 240
tctataaata ctgaa 255

<210> 370
<211> 255
<212> DNA
<213> Ratte

<400> 370
acctttttggg aatctaattg attgtaagggt attttacacg tgtcctgatt ttgccacgac 60
ctggatattg aagctatcca agcttttgaa ataaaaatta aacaaaaccc caagcctggg 120
tgagtgtggg atgctctgta agaccttgcc cagtattgga gatgccacgt gctctgggac 180
taagggtctcc tggagcagag gtcccttagc tgttttcccc atctgatctt ttcagctatc 240
attttatgcc cattg 255

<210> 371
<211> 255
<212> DNA
<213> Ratte

<400> 371
acctttcttc tagcgggtcag tgctctctat tcctccagtg atgatgtcat cgagttaacg 60
ccatcaaaatt tcaacagaga agttattcag agtgatagtc tgtggcttgt agaattttat 120
gcaccatggt gtggtcattg ccaaagggtta acaccagagt ggaagaaagc agcaagtgc 180
ctgaaagatg ttgttaaagt cgggtgcagtc aatgcagata aacatcagtc cctggggagg 240
cagtatggtg tccag 255

<210> 372
<211> 255
<212> DNA
<213> Ratte

<400> 372
actagctgtg ttctgcatcc ttggcacctt cccctgcata agaagctgcc ccggtgagca 60
atgatctcag gccgggatca cttagcaggg gtcttccagc cagaatggat acccctctaa 120
acagcaggag ggtgtgagt caggcaatgt agcatgagga agagacatgg ttcctgagca 180
ggcgtaaacc ctaagcaaag gaactccgtt cactcactg ccgcacatta gaaatgaagc 240
aatcagagct caaca 255

<210> 373

<211> 255
<212> DNA
<213> Ratte

<400> 373
accccattgc cgatttggtg aagatgctta ccgaacaagg caagaaagtc aggtttggaa 60
tccaccoagt tgcggggccga atgcctggtc agcttaaatgt gctcctggcc gaggcaggag 120
tgccctatga tattgtgcta gaaatggatg agatcaacag tgatttcca gataccgatc 180
tggttcttgt cattggagct aatgacaccg tgaattcagc ggctcaggaa gacccaatt 240
ctattattgc aggca 255

<210> 374
<211> 232
<212> DNA
<213> Ratte

<400> 374
actgcatgct gtttgtcgca ctttatcttc aagccaggat gaatggagat tgggcaagac 60
tcttacgacc catgctacag tttgggcttg ttgctttatc catatatgtg ggccctgtctc 120
gagtttctgg attacaaaca ccactggagc gacgtgttaa ntggcctcat tcaaggagct 180
gttgtggcaa tattagtggg tttgtatgta gctgatttct tcaagaccac ag 232

<210> 375
<211> 255
<212> DNA
<213> Ratte

<400> 375
accgtggggc aagtgaaaag tgattgcggc cattgggttaa tatgtcttcc tttttctttc 60
tccagtgttc tagttacatt gatgagaaca gaaacataaa ctatgaccta ggggtttctg 120
ttggatagct cgtaattaag aacggagaaa gaacaacaaa gacatatatt ccagtttttt 180
tttctttact taaaaacttc aaaacaatag aaactttgtc tttctaattc tatactttta 240
accgattaaa tcttt 255

<210> 376
<211> 255
<212> DNA
<213> Ratte

<400> 376
acctagaggg actgocgtgc ttttgctcac ttttacctgc ctacttctac atgaggcgaa 60
gttggctctt ctttaggcgt ctacatgaat tctaacttat gcattagtca tcaaaatggg 120
tggctctaag tggtagagaa aggagacacc ttaggtatca tgtaggtcaa ctttttttgt 180
gtgtggagga ggtgaacttc acggccacaa ataaacaggg tttgggcttt gtccagatgg 240
tagacttaat aaaat 255

<210> 377
<211> 251
<212> DNA
<213> Ratte

<400> 377
acaagggcga ggggctgaac aagacagcca ttggggacta cctaggggaa aggggaagagc 60
tgaacctgtc tgtgctocat gcttttgtgg atctacatga gttcaccgac ctcaatctgg 120
ttcaggccct ccggcaatto ctgtggagct ttgcctccc tggagaggct cagaaaattg 180
accgaatgat ggaggccttt gccagagat attgcttatg taatcccggg gtcttccagt 240
ccacagacac c 251

<210> 378
<211> 255
<212> DNA
<213> Ratte

<400> 378

acagtggcca aaggagtctg taacaacttc tcaaatactg ttagcatctt tgggtttgct 60
gagggttgct agtgatgtca aatcctccaa gaaaagatct gcttagataa ctaggactaa 120
cagtttcgta gtaataatcc aattttataa tttgcctttg caaatctgpc tgaagctaca 180
gggaatggaa attaaagcaa gtgtaaaatg ggtagtctga catttaaaaa aattacataa 240
agaggagggt aaagt 255

<210> 379
<211> 250
<212> DNA
<213> Ratte

<400> 379
acacgcgagt tggcaagtgc tccggccatt ccagcttcat caccacttg gactgggtccg 60
tgaactcaca attcctgggtg tcaaattccg gggactacga gatcctctac tgggtcccat 120
ctgcctgtaa gcaagtcgtg agtgtggaaa ccacacggga catcgagtgg gccacctata 180
cctgcacctt gggattccat gtctttggag tgtggcctga gggctcagat ggaacagaca 240
tcaatgctgt 250

<210> 380
<211> 221
<212> DNA
<213> Ratte

<400> 380
acctggaggg tatgatgaac gaggcccggg gacctatcaa cttcaccatg ttcttacta 60
tgtttgggga gaagctgaac ggcacggacc ccgaggacgt gatccgcaat gcctttgctt 120
gctttgatga agaagcctca gggttcatcc acgaagacca cctgcgggag ctgctcacca 180
ccatgggcga ccgattcacg gatgaggagg tggacgagat g 221

<210> 381
<211> 255
<212> DNA
<213> Ratte

<400> 381
gcgtgggtgc ggcggaggtg catgggggtg gggatgaagg ttggtgccac gtcgttgctg 60
agaaccacct caggcctggc ctctagtccc cgggtggagt gagtgatgtc atagtcctgg 120
tcctcttcgc caccaccttc ttctccataa tagaagacat tgtcacgagt gtcctctct 180
gggagcagaa ggggtctctt gaccttcctc ttctttctca ccaacagaag gagcgccaga 240
agaagggtca gtaga 255

<210> 382
<211> 255
<212> DNA
<213> Ratte

<400> 382
acacttgtag aagattttgta aaatgtaagg tttttttttt ttttttttaa tgggtccattc 60
cttcatggga gcgtgtgcgc ctgggctgag agcgtgggga tgcacagatg ttctttctag 120
aacatattcg ttgcaacagc taactttgtg ttttcatggt tttttatggt ttgttttgtt 180
tttttgaaaa tgagagaaga gctggagaga tgatttttat gatttttttt tgttttgttt 240
tttactattt atagc 255

<210> 383
<211> 255
<212> DNA
<213> Ratte

<400> 383
acctggcttt gctagcagtc ttgatccaga caggactgat gtgaaaaggg ttggactctg 60
ccatattccc tgctgagcgt atgggttagac cacagcagag aagtcctgga ataagacact 120
tgctcctcag aggacagttc tggagtgaag ggagtgtgta cccagtataa aaagaaggaa 180
gaaatgttga aaaagtatag aaacgccatg ttaaagagca tctgtgaggt tcttgatcta 240

gagaggtcag gtgtg

255

<210> 384
<211> 255
<212> DNA
<213> Ratte

<400> 384
gccgcccggg caggtacaga acccagagga aggagaggct gctgggggagg aggcctaggc 60
gctggagaca tgtggagttc tctaggggtc tgcagcaacc tcggaaagct gggagattcc 120
ttccttgaga ctctacata tagaaaactg atgcttctgt ctcatccat gcggcttttc 180
ctgcggtatt cctgtagcgc tttctctgcc actgtgtcca taaacttagg gttatccttg 240
gagacttctt ctggt 255

<210> 385
<211> 255
<212> DNA
<213> Ratte

<400> 385
acagcagcct aaaaaagggc aagaaatgca gcaagaccaa gaaatcccca gaaccagtcc 60
gatttactta tgcaggatgc tccagtgtga agaaataccg gcccaaatac tgcggctcct 120
gcgtggacgg ccggtgctgc acacctctgc agaccaggac cgtgaagatg cggttccggt 180
gcgaagatgg cgagatgttc tccaagaacg tcatgatgat tcagtcctgc aagtgttaact 240
acaactgccc gcac 255

<210> 386
<211> 255
<212> DNA
<213> Ratte

<400> 386
accatccctg aaagtgtcgg gtattccctg ctccccctgg caccatttg aggcattcatc 60
ggatggatgt ttgcagtggg gcaggatggg ttcaagaatg ggttttagcat cacagggggg 120
gagttcacca gacaagctga ggtgacctc ttggggcacc caggcaagct gatcctgaag 180
cagcagttta gtggtattga tgaacatgga cacctgacca tcaacacgga gctagaaggc 240
cgagtgccac agatt 255

<210> 387
<211> 250
<212> DNA
<213> Ratte

<400> 387
actgaatacc ctgaagcaga acagggcaac caactgtcac catttaagag ggaagtctca 60
aaacatcccc cggggcgatg cttggagaag ctgtaagttg agctgaagct gagaacttga 120
ctccagagca gaaggcttaa gggtgaaatg accactcaga aatggagggt ctgctaacat 180
cactgggggtg tggattgacc ttggtagaga gacacttggt ggcttgggct ggatggaaa 240
attactctct 255

<210> 388
<211> 255
<212> DNA
<213> Ratte

<400> 388
acctgtottt ctccctggcat ctccactctt ccaggaggct caccttagtg tgcgttctgt 60
cactgtgcgc tagtgaacaa ctgtcaagtc taaactgtct cgaaaccagt gtctgagatt 120
gacaggctat ttgcatgaca atgacacacg gttctcactt cgggtgggggtg ttttctccca 180
cagcagttag gaaccagat ttaaatattg gtgctattgt aatccttttt gtttttttac 240
agaagaaaat gagat 255

<210> 389
<211> 255

<212> DNA
<213> Ratte

<400> 389
acggcagcaa atcttattct gtttggtttt caataaagga agtgaggggtg gctgggctagc 60
cagggcaggc agggccacaac ttctacttct aggaatgctt taagagacac taaagggcac 120
cttggggcag gaggcgagta tccggttggc agaggagcag aggcaggctt gaatgaaacc 180
tttctggggg cagctgtgag gatacaacag gaaaagcatg tgatgttagg gggaacactg 240
agctggccct gctgg 255

<210> 390
<211> 255
<212> DNA
<213> Ratte

<400> 390
aacagaccgc ctatctggag gacggggccc tggccttgct gcagnnggcc atggaggaaa 60
actgctcttc agcctccgct gtgcacaccg atcccaccag aggcaccgt cgccttctac 120
gcttctcttc ccagatccac aacaatggcc aatctgactt ccgcccgaag aatggccgcc 180
atgcatggat ttggcatgac tgccacaggc actaccacag catggaagta ttcacttact 240
atgacctct gagcc 255

<210> 391
<211> 255
<212> DNA
<213> Ratte

<400> 391
accctgctgg ccggccagat ggaccttgct aatgaaattc cctttaccta cgagcagctc 60
agcatcttca agcacaaact ggacaagacc taccacaag gctatccga gtccctgatc 120
aagcagctgg gccacttctt cagatacgtt agccctgagg acatccggca gtggaaatgtg 180
acttcaccag acacagtga tactctgctt aaagtcagca aaggacaaaa gatggatgct 240
caggtgattg ccttg 255

<210> 392
<211> 255
<212> DNA
<213> Ratte

<400> 392
acttgagcga gctttgagca tttaagctac aacttttcat gcagctccaa gacagaatag 60
aagctagcag ttaggtttcc atgcacttct gtgtcattac attgaaaatg gtttgtctta 120
aggtttttag actgggcaaa taaaactact agcaagaatg aagttatagt gtgaaaagct 180
ttaaacttcg taggtctagg gtaggtgaaa agagtcttca caaaaataa aggcagaaga 240
aaagtcatag ttgga 255

<210> 393
<211> 250
<212> DNA
<213> Ratte

<400> 393
acggcccgctc agaacagggc cagctcagca gccagccag tccgatttga tgcttccaaa 60
cttcacactc ttcagacttt ggttctccaa cttcaggtta taagcaccct tgaagaaata 120
gctgtgacca ccaccctgca ggtccacgac tgcatccagg ttatcaggga tggcattcca 180
ggagtctgcg atgagcttcg ggaaaccggg gtccattttc ttctttactt cattgtatct 240
ccagaacttg 255

<210> 394
<211> 255
<212> DNA
<213> Ratte

<400> 394

accaaggatc aaagactgag acacacagtg ctccaggccgg cagagggagg gggatatggca 60
 gggaccctgg cccgcctgtc cctctagacc cactaccatg tttagggaaa atgggggtgg 120
 gggggcagaa tcacactagc cgtgaaccca cttggatgat tgatgtttta ttcattgctgt 180
 ttccaggaag ggatgtcaaa gctggaccag tctgaaccct cagaggcttt tcaattggcc 240
 acagggggct ctgtc 255

<210> 395
 <211> 255
 <212> DNA
 <213> Ratte

<400> 395
 acactgtgag aagctgggtg ttaatttcta tgacccttgg caggaatggt acaacactgc 60
 ctagcagctt cattagaaaa caatggaagc aaaagggttaa gactgattac tactcttctc 120
 catgtatttg gcaagaaaact gtaacagaat ggggaggaaa ataagtaacg cttcaaaaaa 180
 tgatcatctt taccagatca caagctagac tgaatttccc attagagtca gttctcaata 240
 acaattatc aagat 255

<210> 396
 <211> 255
 <212> DNA
 <213> Ratte

<400> 396
 accactgtga ggcgactgtt tttgcacgaa agcatccatg atgaagtgt agacagactg 60
 aaaaatgcct actcacagat ccgtgtcggg aacccttggg accccaatat cctctatgga 120
 ccgtccaca ccaaacaggc ggtgagcatg tttgtgcaag ccgtggaaga agcaaaagaaa 180
 gaaggaggca cgggtgttcta tgggggcaag gtcattggacc accctggcaa ttatgtggaa 240
 cccaccattg tgact 255

<210> 397
 <211> 255
 <212> DNA
 <213> Ratte

<400> 397
 acagcatggc tgatatcaga gcagttttta acggtcccta tgctcataag gaaagtgcag 60
 accatcggtt ggtgtaatat gatggaagga taccttatcc ccgaccgga acgtgtccca 120
 gcaaaacctg tgatccactg attaatgcca cccgagactt ccagatgat gttatcagtt 180
 tcataaggcg gcaccgggtg atgtataagt cgggtgatcc agtggccgga gcacccacct 240
 tcaagagaat taacg 255

<210> 398
 <211> 255
 <212> DNA
 <213> Ratte

<400> 398
 acctatacct acgagggggc ccgaccccat tggggcagga gcactgggtt tgaagagatc 60
 cataaagttc gcctgagggg ctgcaggngg ncctgnnggg gacatcnggc cnggaggntc 120
 tgaggcaaaag atatctgaag caagcaggtc gttngctgaa gactgacaaa aggaaggagg 180
 gagaagagtt attcagcaag agggaaaaaca cagcttctgt ctcactccta ctaacaaccc 240
 aaagctaaca gccat 255

<210> 399
 <211> 255
 <212> DNA
 <213> Ratte

<400> 399
 aggtactcaa atcagtccag gcacaggagc tggcaaaagc taaaaaacag ctggaaaact 60
 ggtccttcca gacctagggt ggtggtaaaa atccacatac cggagtcagg aagattccaa 120
 ttcaaaagaca aagggaatatg cagaggcccc ttggcagtggt gtccctgcctt ccacagcagg 180
 ggaggaaaac caagaaaaga gctgccacat cctccaccca gtcccacccg tcccctttga 240

cagcaggact cagtg

255

<210> 400
<211> 250
<212> DNA
<213> Ratte

<400> 400
accaggcta tacatgactg tcgccctagc caggactgcc ataaccttcc tggctcctat 60
cagtgcacct gccccgatgg ttaccgaaaa attgggcccg aatgtgtaga catagatgag 120
tgtcgctacc gctactgcca gcaccgatgc gtgaacctgc caggctcttt ccgatgccag 180
tgtgagcccc gcttccagtt gggacctaac aaccgctctt gtgtggaagt gaacgagtgt 240
gacatgggag 255

<210> 401
<211> 255
<212> DNA
<213> Ratte

<400> 401
acaagctttt tttttttttt tttttttttt tttgatggct atcaagtgcg ttttattgaa 60
tccattgtgg atagatgagt gttacacctg cgtgtcggga ggggcagagg ggcaaggagg 120
gatacagctg cagatgggtgg agcacgtcag gatcagaaac cagaatcctc tatcaagtct 180
ggagacgagg agcattaaga gcaatgatga cgacagtaac aatagtata atgaccatga 240
ggatgctgag gacca 255

<210> 402
<211> 254
<212> DNA
<213> Ratte

<400> 402
actgggcctc accacatcca gttactccga tccaactatc ggctacgaga acaaagcgct 60
gatcctctgt ggaggctaca gtgtggtaga tgtcaccact tttataggct ctaaggcccc 120
tattccaggt acccaggaga ccaatagtcc caagaccccc tccctctttc cctgtgcctc 180
aggggccttc agcagcttcc gcgtgggtcat cgcgcccttc tacctacca actccactga 240
cacggagtag atgg 255

<210> 403
<211> 255
<212> DNA
<213> Ratte

<400> 403
acacgaaaa acgtcccagga gagtattaag acattgcttt ggtcttataa ccacaaatca 60
tacatgtgac ccagtgcata tgaagagttt aagagataaa gggaggggaa ggggaaaatt 120
taaaacatag tgggggaatg ggggagactg ttgtaacggg agncaccctg tgaggtggct 180
gaagggtgaa gaaagcactt gaatttttcc caaataaggg aggatggagg gaaacaacct 240
gtnttcaaaa atgtt 255

<210> 404
<211> 255
<212> DNA
<213> Ratte

<400> 404
accactgaag cactactaga cttcacccaa ggaatgaact agccactcag acacagtggc 60
cctccatgtc caaatggact tgaagagtat tgctgacaga agcaccaggg attctagcta 120
gtcctaaagc aatagcaggc aaagggaattc ccaaacagga atctgggaact ggaaatctcc 180
atatcttttt ggaagtggga atgaagagcc atatataaat aaagatgtta tttctgaaca 240
atttcaattg ttccc 255

<210> 405

<211> 255
<212> DNA
<213> Ratte

<400> 405
acaccagttg aggtttctaag acctggaagc cacagaagcg cagaatgcc a tctgaattg 60
gccagagaat gacgttcatg tccccgtgga caccctgcag agagtacatg gagccgctgc 120
ccccggtggg gatggaaagc aaggtcttct tattctggaa aggacccttg tcatacatgg 180
tggcatacgt gtaggcgaat cctgctacaa gcactctctc aaaccagcct ttcagaatgg 240
cgggcacccc aaacc 255

<210> 406
<211> 255
<212> DNA
<213> Ratte

<400> 406
acaacagatt ttgcttttta tttatttata atgtaatttt atagaataat tctgggattt 60
gagaggatct aaaactatct tctgtataaa atattatttg ccaaaaagttt gtttatattc 120
agaagtctga ctatgatgga taaatcttaa atgctttgtt taattacaaa aacaaaatca 180
ccaatatcca agacaggaag atatcagttc aacagcttac tgaagttagg aaactaactc 240
cactcgtatg ggaac 255

<210> 407
<211> 255
<212> DNA
<213> Ratte

<400> 407
ccaaaggaaa gatacgggac aagccactgg cccctcgaac catctgcctt tggaaatcaa 60
atTTTTttaa ataaatgtta tgattgagga ccacatgcat agaaaaatgg tgcaaaaacc 120
gagacagtat catcagcttt atcaactgta accatgggtt ggttcttccg ggccagttcc 180
agtctgttaa gaggcagaaa aatttggaag tgttacctca cagaggcacg ggtctttttg 240
cagttgccaa cctgc 255

<210> 408
<211> 255
<212> DNA
<213> Ratte

<400> 408
acacgacgct gccaaaggaa gctcggatca gggtatacta atcctatcag tctgcatgcc 60
ctcaaacgct cctcaccatg gccgtgcgtt cttcatcctt gcggcttaag gtcccaccac 120
tcttcccttt gcatattccc tttggagaac agcaagggtga gcttccttag cataccaccc 180
cagggaatga tgcagagtta gcaatagacg caaatgaact ttcccaggaa atcactttctc 240
agaccacaaa agtgt 255

<210> 409
<211> 255
<212> DNA
<213> Ratte

<400> 409
acatacattg tatgggttta agctggctgg atattatata tttcaagttt aaaaatgcac 60
tacagataga gtgtccatag ttttaaggcga aattacagct cagaactgtt gtcctttcta 120
atTTTgtgga agcttctttg acaaatataa aaataaaata agagagactc agatgttcat 180
aacacataga cgatttccct tcattgtaag ttcactgtgg acttttcttc catttaaata 240
tttcgtgtgc caagt 255

<210> 410
<211> 255
<212> DNA
<213> Ratte

<400> 410
accgcgccct gggcctagn gcttaacagt agcaacagca gcggcggcgg cggcagccga 60
cttccccgatt cgagcacagg cgcgcgaaaa tccgcacagg cgagtagaga aaatggcaga 120
cgatattgat attgaagcaa tgcttgaggc cccttacaag aaggtgagaa aacatgctag 180
ngagctgcaa tatatttctt aatttagcat tattcacgaa actactgctg aaatgtaaac 240
taaccttccc ggagc 255

<210> 411
<211> 237
<212> DNA
<213> Ratte

<400> 411
actatttttg gccaacagaa ttgcaaaaa aatgtaaaa ttaataataat cattttgatg 60
ggatgagttt tactgtcatt aaaaatattg gaaagcacia gtattagtat ctgtcgtgaa 120
aaaccaattt tagtcagagg cgtgtttgtg cccaattagg tatcatgtat gtagttgtaa 180
ggatgtagaa ctcaaatac acagggtctt gcccagagac accgagttca acagtgg 237

<210> 412
<211> 255
<212> DNA
<213> Ratte

<400> 412
acgttatcaa atgtcagcct ggatactgtc tacaaggaga tggtgacgaa agcccaacag 60
gaaataacca tccagcagct aatggctcat ttggattcca tcagaaaaga catgggtcatc 120
ctagagaaaa gtgaatttgc aaatctgaga gcagagaatg agaaaatgaa aattgaacta 180
gatcaagtta agcagcagct gattaatgaa accagtcgaa tcagagcaga caataggctg 240
gacatcaacc tggag 255

<210> 413
<211> 255
<212> DNA
<213> Ratte

<400> 413
tttttctggt gcaactccaag tgctatatgc ctggtttatt cttcaggaaa ttatatttgt 60
ttttctttta caagagcaca acaggaacca aagtagaaga gtaacagata cagcactcag 120
gataaatcat atcttttaaa taataaaaaa aaatttacac cttgtcctat atcctgttag 180
tattttcata tgggcatgat tgaaaaaaa aaaaacaaca acaaaaaagc aagcatttac 240
aatttttttt tcgat 255

<210> 414
<211> 255
<212> DNA
<213> Ratte

<400> 414
acaggggggaa tgggggttgc ttatgaatat aaacctgagt tgagcctcag tttcctggtc 60
ttttctatcc cctaagaggc ttgaggatat ggccatagat tcagtgggag ctggcacctc 120
ttcccacact acctgtatgg actggccggt gctcctctga acgtattatt agtgtaactc 180
tttattttgt gtatttgtaa catcatgtgt gtgattgcct ttgttaagggt tgtctgagga 240
gtatgggctg acagg 255

<210> 415
<211> 250
<212> DNA
<213> Ratte

<400> 415
accctggagg cccaaggccc ccgttgagaa tacctaataa ggcacttgga ggtgtcccag 60
gaagtcagcc attactcccc agtggaatgg acccaacacg acaacaagga catccaaata 120
tgggcccagc gatgcagaga atgactcccc caagaggaat ggtgccccta ggaccacaga 180
actatggagg tgcaatgaga cccccactga atgcttttagg tggccccgga atgcctggaa 240

tgaacatggg

250

<210> 416

<211> 255

<212> DNA

<213> Ratte

<400> 416

acctaccag aagaaagaaa aacttgccctc tctggccaaa cagctgcttt gtcgagcatg 60
gcctcatggg gacaaagaga agaaccccccac ttttaatgac cacctccatg acttgctttg 120
catctacttg gagcacacag acaatgttct gaaggccata gaggagatca ctgggtgttg 180
tgtcccagaa ctgggtcaatg ctccgaaaga tgcctcctct tctacatcc ccacgttgac 240
caggcacacc tttgt 255

<210> 417

<211> 255

<212> DNA

<213> Ratte

<400> 417

acctaaagat cctgacaggt cttgctgaag ttgctacaac aaatggccat aaactgctta 60
gtctgtccag cagctacgag gcgcagatga agagcctcct gcggatcgtg aggatcttct 120
gtcacgtctt ccgcattggc cctcgtctc ccagtaacgg catggatatg ggctacaatg 180
ggaataagac tccaaggagc cagggtgttca agcctttgga attgcttttg cactctctgg 240
atgagtgggtt ggttt 255

<210> 418

<211> 250

<212> DNA

<213> Ratte

<400> 418

acagaacccc cagggcagcc ccacacttgg caggggtccat aaagacgagg cagctccgtc 60
catcctggag gaagatgggtg gctgggaacc tgctggctgt gcactcgggc tgcttcagac 120
tttgctccct ccctagtcca ttgccagacc caggaagaag gctcatgtct gcactggggc 180
gatcacagaa atgcctgttg tcaggggatt gtggggagca gtggcttgc tggggtagag 240
ggcagaaggc 255

<210> 419

<211> 255

<212> DNA

<213> Ratte

<400> 419

acaaatcccc caggtgaggg agactactgn gtgggaagaa aagctctaga tacgccttgn 60
ggacattccg ggtttctgca gtgggttaaag aaagacacac tcaaactatg cctggatgat 120
ggaagctgct cactcaggcg ataggngatc aatccacttt ttcttttggt nggactagaa 180
gatgaggggtg gagtaagcag gaaggggata gatcctggaa gaattgtctg gaattttcca 240
gagatatcag taata 255

<210> 420

<211> 255

<212> DNA

<213> Ratte

<400> 420

gggaaaagtc taaacatagc aacagtgaac ataaagattc tgaaaagaaa cacaaagaga 60
aagagaaaac caaacacaaa gatggaagct cagacaaaca taaagacaaa cataaagaca 120
gagacaagga aaaacgaaag gaggaaaaga ttagagctgc tggggatgca aaaataaaga 180
aggagaagga aaatggcttc tctagtccac cacgaattaa agacgagcct gaagatgatg 240
gctattttgc tcctc 255

<210> 421

<211> 255
<212> DNA
<213> Ratte

<400> 421
actgcgact cccagggcac agagcaccac caagtgcctt agaaccttcc ctgacagaga 60
tggggctctg cccctgagga gcttacaatc cggggatcta caactcaaag cccgagttgg 120
acagcgagct aattttaaggc aaaaacctcc gtcccctaga gctattatag atggaattat 180
tttagcattt ggaattaagc caatgaagag agaatttggt tgtggattta atttggttgt 240
ggattttttt caggt 255

<210> 422
<211> 255
<212> DNA
<213> Ratte

<400> 422
accctcacag aatagcaaat acccttctgc tctggacgtt ggttcagatt tgaatttggg 60
agtaattttcc ttggaagtcc ctgtggcagg tcagagaaat ggaaataaaa gttactataa 120
ttcagattta tgccttattt ttttagcattt tttaaatgtt ggggtctttca agctgttttt 180
tgcttttttat tagatctata taaataagtt aactagcaat ttagttttgt atttaagcta 240
caattaatct ttttc 255

<210> 423
<211> 255
<212> DNA
<213> Ratte

<400> 423
actataagca gtatgttacc tatactgtgt gtccttgctg ggctgtctatt cctttgcoct 60
gcttaggaca aagngtgcaa ctctgataag cctgttttaa agaaaaatac taacactacc 120
aaccaagcag acacagtatc caaactcaaa gtgcaaaatc actgaaccaa agnggatgat 180
gttgaagaat tacagnggtt agaaacaaat tccaactccg ttaggcangc ggagaagatg 240
tgctcacaga ctcat 255

<210> 424
<211> 255
<212> DNA
<213> Ratte

<400> 424
actggtcacc actggattcc cgacacattt cagtcacgag cccccagaag agacggatgg 60
cccacgggga gctatcgctt tagctgcctt cctacaggct ctggggaagg aggccgccat 120
ggtggtagac cggagagcct tgaacttgca tacgaagatt gttgaagatg cctgaagca 180
aggagtctc aagacaccaa tccccatatt aacttaccga ggaggatccg tgggaagatgc 240
tcgggcattt ctgtg 255

<210> 425
<211> 255
<212> DNA
<213> Ratte

<400> 425
actgtaggct ctgggaacaa gaacactggg ttcgattcat gacttgagag acttaagtta 60
cccaaaacat taagatttta aaagactaaa agtagtgagg gaaaaaaaaa caataaaaaat 120
tgcaagcaga gacttaacta agagttttac aattaaaaaa aataccaaat ttaaagtatg 180
tcagttttat agaacttgta atttggactg caaaaggaat gcttaaggaa ttcacttcc 240
tcgtcagta ttttc 255

<210> 426
<211> 255
<212> DNA
<213> Ratte

<400> 426
actgtgtttg tgtaaatgtg ctattaatat aagtattttac gtgttcctaa atattcacag 60
actctagttg caaggtcaaa ggcagcttat gatccccctga gttaaaaaat aaatgggtgac 120
ctgtcatcta tgaccttaaa ctggcagcaa gaaaactagc agaggtgtgc aactgtctgg 180
tagtggagta atggctttct ttctatgtcc ttgagcttga tctatgcaga agagagtaga 240
ccattaaggg aagag 255

<210> 427
<211> 255
<212> DNA
<213> Ratte

<400> 427
accagcaaga agaccaccca gatgttgtca cctgccttga acattacagg caaccattaa 60
atgttttattg tctactagat aaaaaattag ttgtgtggcca ttgtcttact ataggtcaac 120
atcatggcca tcctatagat gaccttcaaa gtgcctatct gaaagaaaag gatacacctc 180
agaagttgtt taaacagtta accgacacac actggacaga tatcactcgc cttattgaaa 240
agcttgaaga acaga 255

<210> 428
<211> 255
<212> DNA
<213> Ratte

<400> 428
acctggaaaa ccaacattct gaatgtatgg aactggaca tggggttacc catgaggctt 60
tcaaaagaat ccaagaattt gctctctacc ctaccagta gtgtgatggc atcactagt 120
ccaggtatag gactaaagt agtattaggt tgaatattga tgtagactct ttgtgtgtcc 180
tatacctctt aatgcataaa ttcttaaatt tgtctttaga gtccagttgg cctgttaatt 240
gtgaatttcc tttga 255

<210> 429
<211> 250
<212> DNA
<213> Ratte

<400> 429
acgagactct tgggcttggt tgccgccaa gcttactttc caaggttgat toctagaacc 60
aacagaatgg aacaagagaa tgccctcctgc caacggctct ggcttgaga gatatgccgc 120
agtgcacctt cccacagaaa gagacacaca cacacacaca cacacacaca 180
cacacacaca caccaaggaa agcctccaaa aagagattct cactgtaagg aaggatgtaa 240
agaaaataga 250

<210> 430
<211> 249
<212> DNA
<213> Ratte

<400> 430
acttttactg taaacggggc aaaatccaga ctgttcaatt gttattatcc caaactgagc 60
aagtttttaa gttgttttta tnttaaaaag ccatcagtaa taatctggaa ttttttactt 120
ttaaagctgc tttagcctcaa ttttaacaga ttctgaaatg tcttaattga tgtaattagt 180
gaacttaatt actctattac tgttttcttt aaagcattta ataaatacct gttgactgcc 240
taggaagag 249

<210> 431
<211> 255
<212> DNA
<213> Ratte

<400> 431
caagcttttt tttttttttt tttttgcta tttgatttat tttattttac tttataagta 60
actggcagaa acacaggaat aaatatctct ataaagtggc tatcctaaaa atacttgtga 120
cgattatctg aatcatttgg tcctaaaaaa tgttgcttta aaaatcaagt tcagcctaatt 180

tggaggtaaaa tttaatcata tccagcactg gaatatatta tcttgccttt ggctgtaggt 240
tatacttttg tggct 255

<210> 432
<211> 255
<212> DNA
<213> Ratte

<400> 432
acattggttg cttgctgttt cacacttttg ttaagtgtcg acatattttg atgtaatgag 60
taggcagcca gaagcagcca gaaataattg atctgtcctc tggtaatgcc aggttttcca 120
acatttgaca tcccgttgag gaggggaaag gctgaagatg gcactggggg acacctgtgg 180
catctagacc ccattgtatac cggcgtatga ctttagggca catgtgcttg ggcggagacg 240
tggtaggcga cagga 255

<210> 433
<211> 255
<212> DNA
<213> Ratte

<400> 433
gtcacacaga cagtatgtaa agaggcatcc accacaaggg gagcagtgca gtgttctgtt 60
tgtaggggtc caggaagaat caatgcctcc aacagtggac aaataactaa agtccttaca 120
gcaaaccata tgttgtttagc ctctgtggtta ctgcttaact gcaaacctgt tgagtaatca 180
accttataaa caatagctag acagtcatag gcctttaaaa caaatgatct aataacagca 240
aaggagagat aaatt 255

<210> 434
<211> 255
<212> DNA
<213> Ratte

<400> 434
acacatagat acaaatatca atgggtcagtt cctgcttcac tctcaaagaa gtggttgctc 60
acgtctgaac attttggcta gaaaacaggg cagtgttcaa tgctaacctt cagtatgtct 120
gactacacag agaagccagg gcatgtgagg cactaacata gccactagt cccactgagg 180
ccacactgct gtgctgctgt aggtagtcca gggtactgat tcaactgagta aacacacacc 240
tagaaactat agcaa 255

<210> 435
<211> 255
<212> DNA
<213> Ratte

<400> 435
acagactcct gtatacagac ggaaagttag caaggactca actcgaccac atcaagtttt 60
cttgaaaagt gtttacttta aacactttaa gaaaaatata acttatctac atgtttgaat 120
agtctagaag gaaaaacaaa gccacogtca agaccctgtg gagttgaaga ggacacggaa 180
acgtctcaat gaggtaatcc ttccactgtc tctaaaagtc cgacagaaac tgagttagct 240
cacgaggaca gattt 255

<210> 436
<211> 255
<212> DNA
<213> Ratte

<400> 436
acaagaaatc ctcaaagaaa gcggcgtggg ggagctgtga attctagaca aaccagaag 60
cgaactcggg aaacaacttc aacccttgag atttccttgg aagcagaacc catagaactt 120
gtggaaaccg ttggagatga aatcgtggac ctccactgtg aatctttaga gcctgtgggt 180
gtggacctga ctcaaatga ctctgttgtg attgttgaag aaaggagaag gccaaaggaga 240
aatgggagga ggtta 255

<210> 437

<211> 255
<212> DNA
<213> Ratte

<400> 437
acaggtgcct gtgctatgat gggttcatgg cgtctgaaaa catgaaaact tgggttgatg 60
tcnatgaatg tgacctgaat cccaacatct gcctcagtgg gacctgcgaa aacactanag 120
gtcccttcat ctgccactgt gatatgggct actcntggaa aaaaggaana acgggctgca 180
caaatatcaa tgaatgtgan attggagcac acaactgtgg caaacatgct gtgtgcacaa 240
atacagcagg gaact 255

<210> 438
<211> 255
<212> DNA
<213> Ratte

<400> 438
actaaagcaa cttgctgact gctgctttct ttctcttata cagaattggc agaggggggtc 60
gatttgggag gaaaggtgtg gctataaact ttgttactga agaagacaag aggattcttc 120
gtgacattga gactttctac aatactacag tggaggaaat gcccatgaat gtggctgacc 180
taattttaatt cctgggatga gatagtttgg aatgcagtgc tcgctgttgc tgaataggcg 240
atcacaacgt gcaat 255

<210> 439
<211> 255
<212> DNA
<213> Ratte

<400> 439
acatgatgac tccacaatag ttgaagctaa gctatctgaa gctatagagc ctgaagttgg 60
gccttgcggt ggttctgctc atgttganc cgtgtgatgat tccactcaca tttctgtgca 120
agaggaaaac aagtcgtctg tcagtcattg cctccttgat ggctctacag ttcttgagga 180
aggcttattt agccaaaaga gtttccttgt tttgggtttt agtgttgaaa atgaatgtaa 240
tattgtaaac atcat 255

<210> 440
<211> 255
<212> DNA
<213> Ratte

<400> 440
accgcaacta ccatgctcgg cctttttctg tgcggttttc caggctgcag ataaaaccgg 60
ccgatctata ctgccggctc caatctgcag aattcaggac accttgccaa aagcaatgaa 120
ggcctggctg gactcttgtt agagtgcctga acgggtgggg tctttacagt tccagtggac 180
tagggaaagg gatgttgaac gaattagggt tgcaaagggg ccggaacttt tgtttgtctg 240
tttgttctgt tttgt 255

<210> 441
<211> 255
<212> DNA
<213> Ratte

<400> 441
acagtcaa at gaacaactgt ccaatctgtc atcctaattt ggatatgtgt gttaatagag 60
gtttgtctatt tttccaggag ggttttttta agtacaaatt tctataaaaag tgtttccatt 120
atattagcac nccctaccg ataaatcaca tgatttttgt ttcaaatttc aaccttaaaa 180
ctaccttcaa ccgtgcttat cctatcaaaa tattatactc taaagacatt tgaaacctaa 240
aactgctcat tgtat 255

<210> 442
<211> 255
<212> DNA
<213> Ratte

<400> 442
acagttaata cattctacac aaaaacattg caatatttgc cactattgcn ggcaataatt 60
acatgaaaca gtttaacagt ttatggggtg gtcacagtgc acatattact agcaactagg 120
gctaagaagg aatcatttag tgtaaagtt ttattggaat ttggccaggc agtcnatgct 180
atagttagta aacncatttg gagacaaata tcagagtagc tcaagccatt tgcaatctga 240
aatgattcct atatg 255

<210> 443
<211> 255
<212> DNA
<213> Ratte

<400> 443
gacgcagtac aagtccaagt ttgctgacct ctctgaggct gccaacccga acaacgatgc 60
cctgcgccag gcaaagcagg agtcaaacga ataccggaga cagggtgcagt cactcacctg 120
cgaagtggat gcccttaaag gcactaatga gtccctggag cgccagatgc gtgaaatgga 180
agagaatttt gcccttgaag ctgctaacta ccaagacact attggccgcc tgcaggatga 240
gatccagaac atgaa 255

<210> 444
<211> 255
<212> DNA
<213> Ratte

<400> 444
gttgataat gtaaatttat ttctccaaat tgagagtgat ttttaaaaat tttttatctt 60
tatatggttt cagaagtatg aaccagcttt ctttttatta ttgtgggaaa cattttgttt 120
tataacatag ttgttgactc tgtaataaat ggacatgcta ggatctggat cactttcaat 180
tgaagtcagg gtattgtgca tagtgagtaa aaagtgttgg gactgaaaat tgattaccac 240
agaaggccaa tgcct 255

<210> 445
<211> 255
<212> DNA
<213> Ratte

<400> 445
acattgtttt accctgtatt cattaagaca ttctctgaaa agtagcctaa cctatgccaa 60
tattagctac ttgacaccat gtgaaactaa cttgtttttt ttctgtgtgta tgtgtgggga 120
gagagaggag gggggacaga cagacagaca ggggtgacttt ggggtgtgaga tatggatgct 180
atgtaggcca cactggccta gaactaaaaa atctgcctgt ctctgtgtcc cagttgctag 240
gattaggtat ccgct 255

<210> 446
<211> 255
<212> DNA
<213> Ratte

<400> 446
acacagcttt aattccagca ctctacagaa taagttccag aatagccagg gctatgtaga 60
gaggccctgt ctcaaataca aacaaaagtg ggggtggagg gaggagtggg gaatatgtgt 120
ctcagagtaa ttccatctct agaaacagtc agtctcaggt cagtctgtgt gggtaggagg 180
tgaaggggtga attgagtcag gatgccaccc agagccaaca gacagtcttc tgactataat 240
gaaagccagt taatt 255

<210> 447
<211> 255
<212> DNA
<213> Ratte

<400> 447
acaaattttac attcaggagg aatgttaaaa aaaaaaattc aactaaaaaa accacttctt 60
cctgtgaccc ataataccaa catttttacag tgcaggggag agggaggctt gggggagcat 120
ccaaaacaag tctctcaaaa gaaataaact taaaatgtca cattccctct ccacacagga 180

ttcatagtga ggggtataatt acaattcatc cttctctgta ggttcctttt ctgtttcctg 240
 ttctttcttct tcttc 255

<210> 448
 <211> 255
 <212> DNA
 <213> Ratte

<400> 448
 accaccacaa acccttcagg ggagactctg ttcttagaac aggggaatccc ttctctcttg 60
 ccctgactgg agtggcaagg aggtgttctg agctgagcgg ctgttccggc accagcagcc 120
 actctgacag ggcagacaga gcaggagtgc attggtgtct ctagggaactg ctggcctttg 180
 agctgctgac cttccctccc tcccatagag gcttggaag gaaaatgagc gggcagcatt 240
 aagagctgct agtga 255

<210> 449
 <211> 255
 <212> DNA
 <213> Ratte

<400> 449
 acaagaaaca tcgggagtga atactgaaga gctgcaagtt tctcaaaatc caaaggaatg 60
 aacccaaaaa aaaataaaaa ataaaaataa ataaaaaaat gtgttttccg atgttcaaat 120
 ttctctctta agcgcaggta agaaaaaaa gagcaaatat attaagtcaa ccaattttta 180
 aaagtgcatt ttacctttat aacaatgaaa attaacaaca aacccaaaaat accgaccctt 240
 aaccccaaag acaaa 255

<210> 450
 <211> 255
 <212> DNA
 <213> Ratte

<400> 450
 acagctggac cttagttaaag ctcagttcca cagtggccta tacactgaan catgctttgt 60
 gctggccgaa ggttgctttg aaaatcaagt gtttcatgcc aatgcctttg gatttcctcc 120
 cacggagccc tctagcacca caagggcata ctatggaaat attaattttt ttggaggggc 180
 ttctaattgcg tcagtgaagg cttctgcaaa actgagacag ctggaagagg agaacaagga 240
 cgccatgttt gtgat 255

<210> 451
 <211> 255
 <212> DNA
 <213> Ratte

<400> 451
 acaacactga ctttttagac acgacagtag ttttaagttt attgacactt aaactctttc 60
 ttcttgatcc aaaattcttt actcagtcac acaacaaatg aggtaatatt tgtatataag 120
 ttccaccttt gtctcttttg ggaaaatgaa ataaaaanng ttgattgtgt tttcttctcc 180
 ctggaaatag gcagaagggg tgggggtgggt gagccttgga gggctcaggc ttccctttgca 240
 ggaaaggcaa atgca 255

<210> 452
 <211> 255
 <212> DNA
 <213> Ratte

<400> 452
 accccaatac ttcccttcaa gttgtagaaa atggtaaaga aagggcgtgt ccaggctgtt 60
 tatcagtcca gggaaaaata gaaatctccc taaaaggcag ggacctgaag gaatgggtgg 120
 caaaggatata ttggaatcgc tcatttgttt gtgaattttt ttattgaacc cacctactca 180
 aagctagggc accccggacc tttggcccat ccacaccgtt ctccatctgg gggactaacc 240
 ctgtttcaaa accag 255

<210> 453

<211> 255
<212> DNA
<213> Ratte

<400> 453
tttttttttt tttttttttt ttttttttct ttatanaaac gttctttaat tagtgaaaca 60
gttcattgta ttatgggtaa aaataaaaacc aggtcaggaa gcacagcaaa cgaaccaacg 120
ctgtaagcta cacaaaaaac attctgggtca gcctttttta agccaggcac aagaaattca 180
caccattaac aatgaacgct cagagggcct ttogaaaaat tcacacggca aacaacaagt 240
taaaaaatta tcccc 255

<210> 454
<211> 255
<212> DNA
<213> Ratte

<400> 454
ttngacaaaa ttcaacaccc cttcntgata aaagtctctg anagaatagg aattcaaggc 60
ccatacctaa acatagtaaa agccatatac agcaaacagc ttgctaacat taaactaaat 120
ggagagaaac ttgaagcaat ccactaaaaa tcaggggacta gacaaggctg ccactctctc 180
ccctacttat tcaatatagt tcttgaaagt gtagccagag caatcagaca acaaaaggag 240
gtcaagggga tacag 255

<210> 455
<211> 168
<212> DNA
<213> Ratte

<400> 455
acaagctttt tttttttttt tttttttttt tttttttttt ttttgttttt tttttttttt 60
tttttttttt tttacacaag acagaacttt attaatggaa ggcttctctg tgaggagtgt 120
gtgggccccca gggcagggtg tgttagcacc atgatggggg atggcctg 168

<210> 456
<211> 255
<212> DNA
<213> Ratte

<400> 456
aagtggctct gcttaatcac cacagaagtc ctgatgaagc caaaggaaac cagaggctga 60
cagaaatgaa aaaggaaaac agcagacaca gcggacctac cctgtgtcct tgccaccagc 120
tacttactca caggtgaagc agaaattcta ttaaccagc aagtttctgc tttttaaagt 180
tactttcaca ttaccaacat cagggaaatg aagagagggg gtgttttctg ttgggttatg 240
gtcacgaact aacta 255

<210> 457
<211> 255
<212> DNA
<213> Ratte

<400> 457
acaagcctgt gagagaggat gaagaaagta gtaaagattg tggttggtggc aaacggggga 60
gagcacaac agctccaacc aaaacttccc ccagaaacgc aaagaaacac gatgagttat 120
ggcatgatgg agtttgcca tcagtagcaa atccttttaga agtttacctc attcccacac 180
caccagaaaa tatcaccttc gaagacctat ccttagatgt aatactactt ttaagagttt 240
tacatgccat cagtc 255

<210> 458
<211> 250
<212> DNA
<213> Ratte

<400> 458
acattcacca ttggccagcc cacagcagga agtgtgttag gagctcagcg gagactttctc 60

```

caaaaacaca acagttttct gggctctgtg tcagttacat tacattttta agcaacacgt 120
aatctgtaaa attgtcccaa gacatccatt cctctaaccg tttccatacc ccatcccagc 180
cccagacctc tgtgaaggcc acgggctctc agtgcctccc gttactgatg acagccgact 240
caggttcgcc                                     250

```

<210> 459
 <211> 255
 <212> DNA
 <213> Ratte

```

<400> 459
acttcttctt caagaggggc actccgagga gcataactat agaaaaacaa acgacagtaa 60
aaactcaagg ccccatgtgt gtcagtgtacc ccaacatcct cctcctgaga gccacatcaa 120
gactgaagga gaaacatttg agaaagaagc cttccagaag gcgaggtggg aggggtgtca 180
cgctggcccc tagataaaga tgattgagca acagggcttg agtagtagct aggtggaaaa 240
aagagaggac aaaag                                     255

```

<210> 460
 <211> 162
 <212> DNA
 <213> Ratte

```

<400> 460
cggcttaccg tgggtcccggc cgatgtacac atttctgatg aaattcatta gcacaataaa 60
aatttcattc tgagaaaaca gccacaacaa aagtaattta taccatataa aacaatgaca 120
ggtctacagg tgcagttact catgagttta cacatgcatt ca                                     162

```

<210> 461
 <211> 255
 <212> DNA
 <213> Ratte

```

<400> 461
actgcaatga ctgctatctc cgattcaaat ctggccgggc aaccgccatg tgacgtaagc 60
ctccactcaa aagcactgtt gcagatanaa nangagacgg tagtactga ggcagaacta 120
taaaaaatgg tgtatgtttt cccctctttt taaaaaaaaa aaaaaaagaa taatctttgc 180
ctcgtttagat gacataggaa cactgtgggtg ttggtaggac ctgtattttt gttgtttatt 240
tataagaagg taatt                                     255

```

<210> 462
 <211> 255
 <212> DNA
 <213> Ratte

```

<400> 462
acagttttcc cccttaaaga ttaaaaaacaa aaccaaactc agtctaggcg taagaccaaa 60
cacaatgaaa agctcactaa ctagattagg aacagatgat gctgggtgtga atagcttgtt 120
gttttactct agagccctta aagaaaaatcc cggttagtgt tttgtgttac cagccagagg 180
gtcaggggtt agtgaacatg tggtaaaatg aggacttatg caagggttaa tacgcatagc 240
attcttctac tttgt                                     255

```

<210> 463
 <211> 236
 <212> DNA
 <213> Ratte

```

<400> 463
acatatgtgg gactgatacc gggtcagcgg ctgctcatga gagagccacg aggcctgggtg 60
agagctgggt ggaagggggt ggactggagg ggctggcggt tcgcagcaga gcgggactat 120
ctgaagaaaa taattctcta ttatttttat taccacatgc ttctttctga ttctaaaata 180
tggaaaaata aatatttaca gaaaaaaaaa aaaaaaaaaa aaaaaaaaaa agcttg      236

```

<210> 464

<211> 177
<212> DNA
<213> Ratte

<400> 464
acgttgtatg ttgggaatct ttccttttat acaacagaag aacagattta tgagctcttc 60
agcaaaagtg gggacataaa gaagatcatc atgggtctgg acaagatgaa gaaaacagcg 120
tgtgggttct gtttcgtgga atactattca agagcagatg cagagaacgc aatgcgg 177

<210> 465
<211> 255
<212> DNA
<213> Ratte

<400> 465
acaaatagcaa aagtaggcta ggtcgccttt ccttgggtcta cgttattccc tgtctaggct 60
ttgggatttg aaattctcga caccaccaga ggggaaaccc cagggcttgt gtttcctcgc 120
aattggctgt aactgcccc ttggccatgc taaggttctt taaaaacagg gtcatctctgt 180
gttcattctt ctgccccaac cctactatga aacaagataa cccctctgtt ttctaaatgt 240
atcaagggat accac 255

<210> 466
<211> 255
<212> DNA
<213> Ratte

<400> 466
acaaagattt ctccatcttt ggcactgttg gacagaagtc attcactccc acttttgtaa 60
ttgaattatt atgaaggaag attatctgga ggtatttcaa ctctgtaat cctgaaggga 120
tttttttttag tttattgtgt tccaagtgga tctctctcac acgtggtata ttagcaaaag 180
ttccattttc aatatctgtg attttgttgt ttccaagacc cagcctctgc agttccttgt 240
atcgttttaa atctt 255

<210> 467
<211> 250
<212> DNA
<213> Ratte

<400> 467
actattgttt gaggttaggg ggtggaatcg gattattagg aagatccctg ccacaactat 60
tgtgcttgag tgtagtaggg cagagacggg agttgggcct tctatagctg atgggagtc 120
tggatgaagt ccgaattggg cggattttcc tgtggctgca attagtagtc ctgtgagagg 180
gactagattg ttgggtgttg ttaagaaaat ttgttggagt tctcaggagt ttatgttttag 240
gcagaatcag 255

<210> 468
<211> 255
<212> DNA
<213> Ratte

<400> 468
acagtttgga gccaggcctt cgagggggca aaggagggtt cgggtctatg ctctgagcac 60
ttggtgcaca gattgagaag acaaccaatc gagaagcttg ccgggatctc agtgggagga 120
gattacgaga tgtcaatcat ganaaagcga tggccgagtg ggtaaaacag caagctgagc 180
gagaggctga aaaggagcaa aggcgccttg agagactgca gcgaaagctt gcagagcctg 240
cacactgctt tgcca 255

<210> 469
<211> 223
<212> DNA
<213> Ratte

<400> 469
actagagatg agtcccagag aatgataggt cgaggccggc catcttggat gaactcta 60

ttcctgctca	cagatggcag	ggnccctgttg	agacccagga	tcctgtccag	gtggaaggca	120
aacacttcac	tcattgtccag	agggttgcttg	anaagcccac	aggggctagg	gccgcagcca	180
ggcacagagc	ctgaggngct	tccttccaac	atcagcaagc	ggg		223

<210> 470
 <211> 255
 <212> DNA
 <213> Ratte

<400> 470						
acacttggca	agagggctgg	atcactggcc	tgggtagggtg	ggtcccgtgc	ctcctgggga	60
gacagattgc	acagggcgggt	tctctgcatg	tctctggctt	cttcctgagt	tctcacagtt	120
ttttctctaa	ctgccctgct	cattactggc	tgccctagca	cgaggctctgt	atcatgttgt	180
tctcacgtta	ccctgacagc	atacaggacg	gggagtaggg	cacattcaca	gtgttcacag	240
tcagcagaca	tggtg					255

<210> 471
 <211> 250
 <212> DNA
 <213> Ratte

<400> 471						
acctgagggt	gggcttggag	aagtcaccct	actgccacct	cttagacaac	agccactggg	60
cagagatctg	tgagaccttt	actcgggggtg	catgctccct	cctggggctt	tcagtggagt	120
ccccactcag	tgtcagcttt	gcttctgggt	gtgtggcact	gccagtgcctg	atgaacatta	180
aagctgtgat	cgaacagagg	cagtgcactg	gagtgtggag	tcacaaggat	gagttgccga	240
ttgagattga						250

<210> 472
 <211> 255
 <212> DNA
 <213> Ratte

<400> 472						
actagtttct	gctagacgcc	cacactacgg	catgtttctt	tggttcagat	tgccctagctt	60
gatgctagtt	caggaaggat	tacgtctcca	tttgtgttag	tatgctgtgc	tcagctccat	120
ggatagggac	cacgtggcag	ccatctggat	tgtcaatagc	tggggataaa	aatcccaagg	180
aggacataag	cagaaaaagg	agcaataactt	cctgggttga	accaaactca	aaccagagat	240
cttaatgcac	cagac					255

<210> 473
 <211> 250
 <212> DNA
 <213> Ratte

<400> 473						
actcactgga	acatttacc	tgtgcttggt	gggtgtattct	taaagccaat	ccctgggaaa	60
taggtggtat	aatgagtagt	atcatcttac	tacttgccca	agtttgca	cctactaaat	120
aagtcaatgg	aattcaagcc	taattctgtc	tggcttttct	actggattgc	tcttctcat	180
tacatgaaac	tacaataaac	agtttatagt	tatactagcc	ttttataatg	aattcagagt	240
ttgatacggt						250

<210> 474
 <211> 255
 <212> DNA
 <213> Ratte

<400> 474						
accaaagccc	agtgggatag	agatgggtca	ggagacctgg	gccctgaagg	tcacactttt	60
cagaactact	aagtgtgccc	aaagggcaaa	aaactcaaga	gggagggcat	tctgagctgt	120
gtgagttttc	aaactcacia	gataaaacgc	aaactcccaa	gaagcatgtg	attcaaaaag	180
ttaccacctt	cttttggttt	ctgaccctgt	cttaggctgc	aggttgccag	accaggctgg	240
ttgacttctg	agata					255

470
 471
 472
 473
 474

<210> 475
<211> 255
<212> DNA
<213> Ratte

<400> 475
acatttgggtg attatgatat tgcaatgtag cagatccaac attattctca aatcaagatg 60
ttaaattatg ttttgttttg tcttccatta aatgcagggtg aatgtgttca gatgtaaaat 120
atgttttgct gaatgtggac agtttatata cataacacat attctctctg aaatgactct 180
gtatataagg cagggtgtgg tgtgcatgcc tgtaattcca gcagttggga gatagaggtc 240
aggatcattc aaggc 255

<210> 476
<211> 255
<212> DNA
<213> Ratte

<400> 476
accttttcta agaactttga cttaaggtcc ctaatgggtg agaagaacca acacagaacc 60
aaactgactc gcaogtccct agcaggggtt ccggttcttg tgcgatgtgg gtgggaaaca 120
ctactaactc tgaccttcca tacctcatgg ggagcacagg gtccctgctg ggtctcccca 180
ctggacacag tgccaaggac agccccacac atcgggtatt gggtccctg tgtttttccc 240
gtctttccaa agtct 255

<210> 477
<211> 255
<212> DNA
<213> Ratte

<400> 477
acaggttact gcttagatac tacaggggaag agtgcagaga ctgctccagc cctggaccag 60
acaccaagct ctatccattc atataccatg ctgccgagtc cagtgcagag acctccgacc 120
agccaggaca gaggacgggc acctgaggac ccaagatgag acttcctcgc agagagacat 180
cccgtttgag atgtgggatg aactgactta atctgatcta aatctgtata taatccacat 240
ttgtaatcaa ggatg 255

<210> 478
<211> 255
<212> DNA
<213> Ratte

<400> 478
acaaattgct tctgaggcat tatttgccct aaaatatagn gggcttttgt tttgagactg 60
ggtttctactc tatagcccag gctggccttg aacttgccgc tngtccctg cctcagtttc 120
tcagcttcag gattatggac agaaatcacc atgcctggca tgtaactatt tttgaggctg 180
aaatagctaa tgaaaagccc tatctagatc cagattttat atgacatcaa attaggggaag 240
tggaggaat tattt 255

<210> 479
<211> 255
<212> DNA
<213> Ratte

<400> 479
acactttctc attgacaact cccacgggtg gaagacagtt tattacttag tcttactttt 60
tttggacagc tcattcctgc acaagtgaga gacatttgaa gagtaagtct gtttgcgac 120
tgtcatattt gaaccttct acaaaggaga gctccctaaa ttgaacttcc cgaaatctaa 180
ctttcctcaa tttccttctt aagactttaa aacatcagta attgaggga tctcctgatt 240
aaaagtcccc tagaa 255

<210> 480
<211> 251
<212> DNA
<213> Ratte

<210> 491
<211> 255
<212> DNA
<213> Ratte

<400> 491
accagctaca acccaggatg gaggttgggc cagtcttata gtcacgattt ggtcactatt 60
atgatgratc aagaaggatt cctcaggagc tactagagag ttcgaaattg catggattct 120
tccttccaga acacacccct ccagggtctta aaggagaacc ctgctttttg tcctgtggct 180
acatgaagct gcttcagttc tttcagaaca tcatttatac tgaaggattt gatggagcta 240
atccccagaa aaaac 255

<210> 492
<211> 255
<212> DNA
<213> Ratte

<400> 492
actgcatcag tttcctatgc tggcatttct tggttcagtaa cttaaggact atcttgtctc 60
tcagttcaga gactaattat ccagggttaga ttgaccgggt tcactgcttc ttagcaacct 120
catagaagga tttgggaaag aaatgtaaaa cagtgcacct gctgtgtgcc taaccttgag 180
gagtcocggc taagtgtctc ccgagctggg aaggagcttg ccactgaatc acagaagcct 240
ctttagtatt caggt 255

<210> 493
<211> 255
<212> DNA
<213> Ratte

<400> 493
acatgttgac agcaacttga ttggatactc taacgaagag atcaacaaaa aatccacctt 60
ttctttctga aatttcctct agtaactcca taagtttagc agccaagcca agacggcgga 120
attcaggggc gacagacaga gctgtgacat gtccatgccca ctcttcctta gctactgagc 180
cttctgcttt gcccataata taaccatta gctctccgcc aggtgcctcg gcaacgatga 240
aatactccgg ccagt 255

<210> 494
<211> 255
<212> DNA
<213> Ratte

<400> 494
acttcattgc tctattcaat taagctctct attcttaatt tactactaaa tcctcctttg 60
tccttttagt tcataaagggt tttcgtaatg ttctctggga aaagaaaatg tagcccattt 120
ctttccgctt cattggctac accttgacct aacgttttta tgtnngttct tgnngcttact 180
ttagtgctt tttagggttt gctgaagatg gcggtatata ggctgaatta gcgagaaggg 240
gtaaggtaga acggg 255

<210> 495
<211> 255
<212> DNA
<213> Ratte

<400> 495
acatcttcta gttttaataa gtccacgtat gatctaaggg tggctcttct catacagtat 60
gtatgaaaaa caaactgggc atcgggtgatt tctataaaat gtctctcaat ttcgtggcat 120
ttcttaagtg cttcaccaaa tttgttcatt gctttgtatg cctgggcaca ttctgtctgg 180
aaccacatac actgcacttc attcagggttc tctaccgctg atgttccttc ccttgtaaac 240
ttggaacaca tttct 255

<210> 496
<211> 250
<212> DNA
<213> Ratte

<400> 496
actcattcctt tcaactcaata taggaaagct ggctacacaa agcatcgaga gattaaaatc 60
ttgctgaaac atcggaactg gaagagctca gttacttcaa ctttgatttc caaacctaac 120
acctgactga agtaggtcac atccttttcaa cacattactt tatagacaaa tggctattat 180
ttggaggcaa cccaagatag gtaaaaactgc tactgtcttg gaggttcatt tatttctctg 240
acccagcagg 250

<210> 497
<211> 255
<212> DNA
<213> Ratte

<400> 497
acaccgagat tcctatcagt gctttcttca gcctctatta cttcacggtt tagggacatc 60
agttatcatt tcctgcatca ggaccaaact caaactgtca tcactgaatg gccgtaataa 120
ggaaagttaa acttttctagt ctgtgtgtat agcagttgtg ctatttttaa agcactcctt 180
gaccatcact gccactgttc cctgtgaggg agcgcaagac tctgtttctt tagggttgtt 240
acttttagagg atgtg 255

<210> 498
<211> 255
<212> DNA
<213> Ratte

<400> 498
acaactcatt ttgcgccaat tttcacaagt gtttgtctta gtctaaatga gaagtgcaaa 60
ggtttttata ctctgggatg caaccgacat gttcaaatgc ttgaaatccc acaaagttaa 120
gaccaatttt aagtttctta agttatttcc tttaaagtat atattaaact gaaacctaa 180
tagactgcat tgactaacca gtcactctgg atggtgggtg aactgaagca tgcttttact 240
tctaagactg tctaa 255

<210> 499
<211> 250
<212> DNA
<213> Ratte

<400> 499
acaaagttag tgggatgcct attttttatg taaggcgggt atcacccaac cggaagaagt 60
cttctctccc tcgagttctg ttgccttatg tataaaactg caccagctt gcttagagaa 120
gttgcttca tcagagaaga ctccattaat tcagtgtccc aatggcgtcc tagggaggca 180
gcaggcattt tgttttcccc agtaagagct gaatccttta aaaacttaag aaactacttt 240
tggttctctg 255

<210> 500
<211> 255
<212> DNA
<213> Ratte

<400> 500
acttactgga ccatgagcag actttccagg tctcgtgctt gctaagctgc cattactggc 60
cgggtgttagg gccaggcttc attacagtgt gatgtgctgt gcagcacaac taaatggaca 120
tggaattctg cagcagaaaa gccgcattgt gtctttgaac ttgctggatt caaacactgc 180
actttgtaaa caaatgacca gttttttact tgtgggtgtg ttttttaagt aggtatata 240
gtaaattggg tttga 255

<210> 501
<211> 255
<212> DNA
<213> Ratte

<400> 501
acatatttac agacattgtg taaactgttc ggttgactta accaacatca gctgatgaaa 60
acgagcgtgc atctaagtga tgcttttatc aaaatagtgt tttgggttgt gttttgccgt 120

aagagctcca ggccctgctt ccttgatga aaggctcccc agtttaaaaa gagttctgag 180
 tgcacacagc taatgggatg ggtctgtag gcatttccat ctgatactgg atatggcttc 240
 attcttgtaa gagac 255

<210> 502
 <211> 149
 <212> DNA
 <213> Ratte

<400> 502
 accattagt ttagtagtgt ccttgcctt tgatcctaca tctcagattc tggaacagga 60
 aatcttcact aagcctgctg tggcctgagg gaagcacctc aaggaagagg catccactct 120
 gaagtttttag tgagtcaca tggggtttg 149

<210> 503
 <211> 255
 <212> DNA
 <213> Ratte

<400> 503
 accctatatt ttgcccattg tgccattagt agattagaga ttaaagtcac ttttaacttt 60
 acaaagttaa cttgtatatg ttctgttctc ggtcgttagt tctctcaaaa tcaaatgaat 120
 tcagagggaa cttgtctggc tgcttttgtt tcaactgcag gcagtggagc agaaggagc 180
 cgcggtggc taaagtgaac tgttgctgtg taacagtttt atacagagac tgagccattt 240
 tggatgactc aaaat 255

<210> 504
 <211> 255
 <212> DNA
 <213> Ratte

<400> 504
 actctcacga tgatcatgtt ttcaaacctg gcccagctg tgtatgggtc agtgagggtt 60
 agcagtoact tgaaaaatgc cctgggctca ttccaggcca gacactatag gcttctttac 120
 aatctggagt tttctaaagc atgggcaaat ggggcttttg tcaaaacaac actcctttga 180
 aggaagtgc atcagacaag agctcactat ctggtgccag tctgcgggca ccatccccc 240
 acaagagtgc ttttg 255

<210> 505
 <211> 250
 <212> DNA
 <213> Ratte

<400> 505
 actaggactg gtaagggagt tctgtgcata caaaattatt actttcgttg agagcagggt 60
 tgcaccagga ctccctagta tggcctctgt cttctgggca acgattattt tctctggga 120
 aaggaacctg cggctccctc acagtgatgc aggaagcta aatgctgcac cctcctctca 180
 aatccatata acaagccaca gacctcagcc ctctctacag cccacacgg gtggtgtcag 240
 cagcaagctg 250

<210> 506
 <211> 255
 <212> DNA
 <213> Ratte

<400> 506
 actgtaacgt agttaaattc tctcactaag aaggtcacac acccacgggg aaaccatatt 60
 ggtgttgttt tgttgggtgg ttgtgttgtc aaactgcctt ctaaatatgt ctgataatat 120
 catagattgt gctgcttcca atcttgtcca ggaaacctag ggcactcata cgttagtgtg 180
 tgtcacccaa tgcagtcagt ttactgctca aagtgtctag aatgagtaac cgtgagtggg 240
 caatggtggc tggga 255

<210> 507
 <211> 255

<212> DNA
<213> Ratte

<400> 507
accagtcattg tatatgttat tatatgatta gccacagggtt tttgaaaata tataattacc 60
ttatatcctt aagtccttaa aagattctgc acacattcta attctactgt tctagaccag 120
cattctagga tgtgtgtaac aaccccttat aggccttagg agccttttag gctataatag 180
ttttaaatat tcacaccctt gactagcagt gggttgtggt gtatttttgc tttcttttta 240
aggntttttt agatt 255

<210> 508
<211> 255
<212> DNA
<213> Ratte

<400> 508
acaaaataaa gctgggtact aaagccatac catggttaac gcagaaggaa caaggctgtc 60
atggagtcgg tgaagggaag ccagatcaaa tgacacagtc caggggcaga gagcaciaaac 120
ccgtccttct cagacacact tttgaatgtg tttagagaaag tctgggtgga ctttataagg 180
ccgtcataac tgttaccgag caggctgctt gggaaaactg atgccgggtt tgagtccacac 240
cgtgaagcga tgcgg 255

<210> 509
<211> 250
<212> DNA
<213> Ratte

<400> 509
acctcgggtga cgcgtgggtg aatgtcacat cagtcacatg cgtgctatgg ctctcattca 60
ctgaaaccat gacaaggatc tcagagtgcg ctttaaataa gggaccgcat gaagaagcag 120
aggcaacagg aggcgtgatg tggatctaga ctgatggcaa gaaatcttta tttccatta 180
aggaaataag tgggaaatca tttttaagaa ggaaggtcaa cagaaataga agtgtgctat 240
ttagaacatg 250

<210> 510
<211> 250
<212> DNA
<213> Ratte

<400> 510
acaggtgtat tttacaattt ttgtttaatt aaaaatgtta atatattaat aatcaacctg 60
gtcaaaacct ttcagggttc ttcgtttgag tcagtcgcct tgattcagaa tgtaacgagc 120
cttatgatat catgctgagg cgccttgcaa atccgacaat taacgatcct cctagacctt 180
gaggtgatca gcataagagg ccagatcccc tcgagtcac tcacacctagc ttcaccttat 240
tctttaaagg 250

<210> 511
<211> 250
<212> DNA
<213> Ratte

<400> 511
acagccttgc cgaagctgct tttaaaacaa aaggcaagga agtcttctct ttttagtttt 60
tttaaaacaa caaaaagtaa tgactctttc tcactctgtta caagatttca aatcttttat 120
cagcattttc cctcataaag ggctttactt cttctgaaaa catttataaa aaccagggtca 180
acgagacca atgtatgaca ggtgacttca gagcgacctt tcttgcttcg taactgcgaa 240
gaacggggtt 250

<210> 512
<211> 250
<212> DNA
<213> Ratte

<400> 512

acatgctttc	ccatggagtc	tcactaaggc	acagaacgct	atgctgaata	aagacgggat	60
aggacaaaac	tgaactatct	ttctgagagc	aaaacctata	tcagcaaagt	caagaactgt	120
cctaaaaata	ggggcatcac	gtttgtaaat	gttttacagt	ctgaactcca	tgtcacgtaa	180
ataagcaagc	taagtgaaca	ccgggtccac	tgaggaaggt	cctttattcc	caagcatgtc	240
cattgagcgt						250

<210> 513
 <211> 255
 <212> DNA
 <213> Ratte

<400> 513						
acctctcttt	gactaagatg	actaagatgg	cccttggctc	agtggggaac	agtgggcatc	60
tgccctcaca	gatgacacct	cacaacaaca	cctcagattc	ccgtgttcca	aaggcagcaa	120
caattttgct	atttctgtta	actttcacaa	aggcaccccc	aaataccccc	aacagaagtt	180
accccggttt	tgtctacagt	gactgcctgt	gggccacgcc	atctaaactg	agagggggaa	240
agattctatg	ttcaa					255

<210> 514
 <211> 255
 <212> DNA
 <213> Ratte

<400> 514						
actctcagt	agccatagca	gttgtatacc	caaatacaac	caacatccca	cccaaataaa	60
ttaaaaatac	tattaaacct	aaaaacgaac	ccccaaaccc	taaaactatt	aagcacccaa	120
tacatccact	aacaatcaat	ccaaacccac	cataaatagg	tgaaggcttc	aacgccaacc	180
ctagacaacc	agtcaaaaaac	agtaaaactta	aaataaacat	ataattttgtc	attattttcta	240
cacagcattt	aactg					255

<210> 515
 <211> 255
 <212> DNA
 <213> Ratte

<400> 515						
actatgacga	gatcatcaat	gcttttgaag	aagaccctgc	agcccaaaaag	atgcagttgg	60
ccttccgcct	gcaacagatt	gccgctgcgc	tcgaaaataa	ggttacagac	ctctgaccat	120
cagtgtctgcc	tcaggattca	gtagaggatg	caccaaggc	ttctggagag	cgtgtggtga	180
accacactct	tgtagactat	agcgtctttc	tcctgagcaa	tactgcccgg	gcgcccagat	240
cagcaccagc	tccgt					255

<210> 516
 <211> 250
 <212> DNA
 <213> Ratte

<400> 516						
acagtggaga	atgggttttcc	ttgctaacaa	tatttgaact	gctgtatttc	tccttgagca	60
gtgcaagaat	tttcttcaga	gcagacaaga	ctgcggctga	agagaaccaa	gaaaagaaaag	120
agaaggaaga	agaaactaaa	atgagcaatg	gagacggatc	cgagagcact	gtgtctgcgg	180
atcctgtcgt	gaagtgatgg	gatgcggtcg	tcagacatgt	cgtgctttcc	agagactgac	240
atggatgcta						250

<210> 517
 <211> 255
 <212> DNA
 <213> Ratte

<400> 517						
gtgagctctg	ctgggttaaag	gactangcgg	ctcggggagc	tccgctagtt	ggtggtttgac	60
gctctgtatc	ataatcctca	cttctgcctc	ctgtgtattc	taggttgagg	cttgtcccgc	120
accctaaggca	agaggatggg	ggctgcaaaag	aaaacgaaaa	agtctctgga	gtcaatcaac	180
tctcggctcc	aacttgttat	gaaaagtggg	aagtactatg	tcattctattc	attttttaaa	240

acattcatta agatt

255

<210> 518
<211> 255
<212> DNA
<213> Ratte

<400> 518
acaataccca attgataaca gcttgaaaga agtgcaatat tgaagttcaa atatttttaa 60
aagtgtgac tattttgact agaaatggaa atgagtcoga ctcatattgta aaaataatgt 120
aggcgggtgct ttagctagtc ctgtaagaac aaccaatcaa gggtgaagaa aagagcataa 180
cacattagaa atacccaaat tatgcttctc tgaaattaaa aaaaaatgga tttaaagaact 240
gagtattgct ttaat 255

<210> 519
<211> 250
<212> DNA
<213> Ratte

<400> 519
accaggtgca caccgattgc aggttcttcc gaccacgtta gggcggcact ggcactggcc 60
tcatttgggg tcacacacag aactcagaga tccctgaggg tcacattcac aagcggaggcc 120
tgccgtggtgg atcaaggcag aaatgctgaa gatgatgttt ctgcagacat ctgtcatagg 180
tgttttcacc acactccggc tgttctccag acacctgtag cgctggaagg tttcccaggc 240
actgttgggtg 250

<210> 520
<211> 251
<212> DNA
<213> Ratte

<400> 520
acacagaagg ttgtgaaggg gggaggggta acgtggagct ggggcgcttc ctgacagaag 60
tggcagcaac cagcgtgacc tgtaagagat ccatgggtcc cccaaaatgc cccagggtcc 120
tcaaagataa tatattcact ctaaacttgg ccactaagc caattcttct cagtgcctt 180
gaccttctaa ctcatcttgc caccatatac ttcagagtga tcaaccacca taaagggtggc 240
cctagattgg g 251

<210> 521
<211> 250
<212> DNA
<213> Ratte

<400> 521
acatacttaa ctggttagggc aggactccca ggtttactgt ttttacagag atcttagtat 60
ttcatcatgt aaataattta cctctccctg accttctatg ctttaccatt gcatgataat 120
atcatttcag gttatttaag agttaaatcc ctcaatgcca gtaattataa gtatacactg 180
aacatggcgt tcagcatatg ctacaaaatg gcactgtgtc ctttgctaaa aggcttcaag 240
aataatacac 250

<210> 522
<211> 255
<212> DNA
<213> Ratte

<400> 522
acattaacac ttgggatctc actttgatga tctactaggt ttgttatcag cccctgaag 60
gcaaatcaag cttgcatgcg tccacataca gcaccacaac catactctct tacacagtca 120
ctccaggact aggagtctgc ttcatgcgtg aagagcccta gatttgaaaag atgaacctgg 180
ctctttctct accacgggag ccagacattc attcaacact gttcattcnt acactgcttc 240
acagcgaggc ctggg 255

<210> 523

<211> 251
<212> DNA
<213> Ratte

<400> 523
ctttttttttt ttttttttttt ttttttttttt ttttttttttt ttttttgatt ttcaatgata 60
aactttttatt ctgaatatat tggtttttgccc caagatttaa cacaacattt tctgggatta 120
taaataatttt ttataacagt attatacaaaa tttttacaaa atgggttcat ccgactagtt 180
aatttccaca aaagtgtcca gagaacataa taagggggag aaaaaaaatc tgttgtttcac 240
aaaagccact t 251

<210> 524
<211> 250
<212> DNA
<213> Ratte

<400> 524
acaggcacat agcactagcc aaagattata ccttgattac attcccaaaa ggcagatatg 60
ctgcaaacat gcagagattt catttcagntt ggcacatgga actaaatttt gatcctagta 120
tatgtggatt ncaanttgct gtgcataatt ttgtccaatt ttactgaggg gagggcatat 180
acatttgttg ggctgtatct atccaattct gcctgtgaca aacacccaaa catcctaaaa 240
tatcattata 250

<210> 525
<211> 250
<212> DNA
<213> Ratte

<400> 525
acccatcaca atctcttttag ttcttccata cattattagg aaaagctcac ctgtttccat 60
ctaattctgt ctctgtattc tgtctccata taagcttttt aggacttgct agctaaccag 120
gctgaggagt gggtaagaga ggagacaagg cagagttctg tgacctcttt tacagagcat 180
cctctcagga aatgctgagt ataaatgaac tacaactcct gatcttacag gtgtttttga 240
actacttttc 250

<210> 526
<211> 250
<212> DNA
<213> Ratte

<400> 526
accaggccct gtgcagttta tcagacattc gacatgtctg ttttttaatg cttgtggact 60
gcagtcacac tcattctaaa tttttgaaca tgtaaaggaa aatacactcc cccacacttt 120
ttgatacttt tcttactcta gtgggttttt ttttaatttt ttaatttttt ttcaattgcc 180
agcaaggtga taaaactagc caaattgtct tccttttcaa agcanaatca tatacgtgtg 240
tgccctgtgc 250

<210> 527
<211> 255
<212> DNA
<213> Ratte

<400> 527
acgcaaacac cagtaggtat tgttgttaaa actcgtgcat gcacagaaag atcccaagtt 60
ccagaacggg gcggtctgcc agtgggtgtt gtcgtgggtg aaacaagtga agctaggcag 120
gctgcactct tctccttttc tctgacgttt cttctccttc ctctccttct tctccgacg 180
atgctccttg aacagctgca gtttgcgtgc cactcctgg gcgcagcct ccttgaaggg 240
gtgaaagtgg ctctt 255

<210> 528
<211> 255
<212> DNA
<213> Ratte

<400> 528
acagcaccag gtctgtggca ttgggtcaca gtccagctgg acaccgtggg cacacctcgg 60
atctctggac ttagtctagg acagacactg tggttagcct gtcatttggg ttaaagggtg 120
gttttgttgt aacagtgcct atcataccac atgtcagcag ctcttagcat tactgagggc 180
aaggagggaa ggactaacag cacaccagct tggtaagatc ataaatatag aagcttaaat 240
tatcactggt gccag 255

<210> 529
<211> 250
<212> DNA
<213> Ratte

<400> 529
actcaciaag ccctgggctc aattcttagg gaggcagggg aattcccaaa ggaattcaat 60
tcaatattaa aaactaaagc actctacaga cattaggaca ctccagaaaa tggacatttt 120
aaaagtgtcc acgcacaccc gttatgtgac aacctcctat aatctgcctt tagtcccaca 180
ctcaaacttt agcatcagtc ttttatgacg acaatctacc gtggccccta aaacattgccc 240
ttaagggttag 255

<210> 530
<211> 255
<212> DNA
<213> Ratte

<400> 530
acgtttttcag gctcagagtc acggagaagc acactggctg ttcctaactg gactgcagcc 60
agccactgca gcaggagcag gtccctttac ttccggctgc ttagagagtc actcagcaag 120
atagttcaga tcgtatatct gtctttgttt gtttttcaaa atcattaaat ctaaatagct 180
cactttctgag caaaaccctg ctctgtggac aattatcact gccagaatcc tccatttctg 240
tagtgtcctg tgtga 255

<210> 531
<211> 255
<212> DNA
<213> Ratte

<400> 531
actgggagat gaagctgagg aagaagaacc aaagcctata gaactgcctg ttaaagagga 60
agaacctcct gaaaaaagttg ttgatattggc atcagaaaag aagggtggtta aaattacatc 120
tggaatacct caaactgaga gaatgcagaa gagggctgaa cgtttcaatg tgctgtgtaa 180
cttgagagat aagaaggctg ctccgggcagc gaggtttgga atttcttcag ttccaacaaa 240
aggtttatca tctga 255

<210> 532
<211> 250
<212> DNA
<213> Ratte

<400> 532
accagttaag gaattcaatt tccgagctaa gtgtatctac acggcagtgga tgggtcggaag 60
ggtgatcctg gcccaaggag ataacaaggt cgatgacaga gactattacg gcaacaagcg 120
actggagctg gcaggccagc tcttgtctct tctttttgaa gatttgttta aaaagttaa 180
ttcagaaatg aagaagattg cagaccaagt gattcctaaa caaagagcag cccagtttga 240
cgctgtgaaa 250

<210> 533
<211> 255
<212> DNA
<213> Ratte

<400> 533
acacaattta atatttatta tatgcatttt atatacatta tttttcaaca gctgtgtgtt 60
tgctctgtgg tacaattctta aaaatttgcg gattcatagt ctgtaaaaca aaaaccttac 120
aaaactcatc aaaactcgca aactgatcag aaaaggcttt tggaagacta gaaaaaatat 180

tttattgtct taatcatgca ttacacaaag aaaatcttca gttacaccat aaaagtaagc 240
acatctaaaa aaata 255

<210> 534
<211> 250
<212> DNA
<213> Ratte

<400> 534
acagagtctc ctttaacaat gctgccccca aggaagatct gccagtgag gcgaggcttc 60
ttcggggttag agatgtcata ctgccgaatg tccccgtgca gccagttgct gaagtagagg 120
aagcgggtcat ccagggacag caagatgtcg gtgatcaaac caggcatctc tggcaacatc 180
cagcccttca ctttcttgga gggcacctgg atcaccttct cactgacca ggtgcctccc 240
tcattcttgt 255

<210> 535
<211> 255
<212> DNA
<213> Ratte

<400> 535
acttcttgaa actgacttca taacaggagt cattgtaagt tccacagaaa gcaagacgta 60
tgtatttcag ttcttgtctt gaccagcagc actccggagg cccagtgctc ggtgccctcc 120
ttgtatctga agcaggggta acagctctgc tgtgggcctg tttccctcta gtatttacct 180
caaggcttgg aaatgtattt tgaaagacct tcagtcaaac gaagtaaagc aaatgtcaag 240
aaggataaac cactg 255

<210> 536
<211> 255
<212> DNA
<213> Ratte

<400> 536
acgtgcattt aggcaaatag tttgtagccc agggtcctgg tgctaaattc ttacatgcct 60
cactagaagt atggagcaga aaagcaggcg ttctgtgct ttccccatct ctttagatgt 120
gcgtggcctt gcctgactgc ctttgcttgt gtgacatcac ttagccagag tccccactgc 180
tggctttgct cacttctctt tagacaatat tccagtaagc ttgatctcat aattatgtag 240
taattcatct agaga 255

<210> 537
<211> 255
<212> DNA
<213> Ratte

<400> 537
acaatcttac ctttcgctga agagaatgac tgctcaggtt gtaaacaagg agctagcctt 60
ctgagcctct gttagattag cccaagtaat ccaagctgaa gtaatgtggg cttctgttta 120
atgataatcg ttaattatct atgatatatg tttctttttc ccgtctgact tcctactcag 180
tcattataaa cacagacttg aaatcatact ttaaaattcc aaatgcctaa agatgtgcta 240
aactggaggt aactc 255

<210> 538
<211> 255
<212> DNA
<213> Ratte

<400> 538
actactgaca tcatgaacaa tgtgaactca ttagaaaaca taactcaatg agtttagatct 60
acaaacaaga aagaacatga agttttttct gttcatgaga gaaaacctgt cagtcagcaa 120
gaagtaaatt ggaactgcct gaatgttctt tcataaacct aggaaataaa gccaggctca 180
tcagtgagaa cttggagaat ttacccacac aacctgagct gttaagaaaa cattggactt 240
tcatttcagt cgcac 255

<210> 539

<211> 255
<212> DNA
<213> Ratte

<400> 539
acaacagttg ttggtcttga cgatattatg gatgaaggag ttgttaaaga aagtggtaat 60
gataccattg atgaagaaga attgatttta cctaacagga gtttgaggga cagagtagag 120
gacaattcag taagatcacc aagaaaatca cctcgtttaa tggcacaaga acaagtaaga 180
agtttgcgac aaagcactat tgccaagcgt tcaaatgcag cacctctaag cacaaaaaag 240
ccatctggga agact 255

<210> 540
<211> 255
<212> DNA
<213> Ratte

<400> 540
accacagttt ttaactgaag gaaccagttg gaacaatctc aatttaacta aaacttgaag 60
aactaaaaata acaatgcaaa gcttttagcat tgttttggcc aaacttggtta aaactgtaat 120
gcaagaacca aatgcactgt gatgtggcac caactaatta gcaagcatga ctttttcacc 180
tgagagtga aaagggaaac tctaccatgg cttgaagtta aagagcagaa ctcttgacta 240
ccattctgat caaga 255

<210> 541
<211> 255
<212> DNA
<213> Ratte

<400> 541
acattactga aggactatga attcttacag tgacgcttca caccagtgcc atgcgcacac 60
agggtgattc agaaggacag atggaacggt gacaatgtgc agaaaagcaa tcaagggtta 120
tgggocctgtg ggctcttctg agatgggttc atgtcagctc ctaagcgctc attctacaca 180
gtaagctaata gctggagcgc aactcccaag atagagcag ctgtctcata aataatgaag 240
tctttttctc agga 255

<210> 542
<211> 255
<212> DNA
<213> Ratte

<400> 542
acaacttgga actcacatat gaaaatttta agtcagaaga aattttgaga gctgtgcttc 60
ctgaggggtca agatgtgacc tctggattca gcagagttgg acatattgca cacctgaatc 120
tccgagatca tcagctgccg ttcaagcatt taattggcca agttatgggt gacaaaaacc 180
caggaatcac ctcagcagta aataaaaacca gcaacattga caatacttat cgaaatttcc 240
aaatggaagt gctgt 255

<210> 543
<211> 250
<212> DNA
<213> Ratte

<400> 543
accaaagagc aaaatttttac ttctcttgga aatgattgcc tacatgtggc tcccctttcc 60
ttaggctaag tgagaaatac agtgaagtag ctgcctggac agaaagtaag tttctgcttt 120
acagagaaca cgggtgagtc atagagtcag gggaaggcca ctgggagcac ttggctgtgc 180
acaggttctg gagcatctgt cttaaagtc tttgagacac agtaaatgtt aagggaagaca 240
aagttgagag 250

<210> 544
<211> 238
<212> DNA
<213> Ratte

<400> 544
accaaaatttg aatcattgca aatacattta gtttctgaaa ctctttgccc aaatgctgcc 60
ttcgctagaa catcgtaaag ttcttccagc catcatcaga ttccaattcc tgggaagcct 120
cttcagatga gctgctccgg tggatccgcc catcactctt catactgtgg aaagtcttct 180
tgaatgcctc catcatggcg tgcgccagct tcttggcctc cagcttgctc tcacattg 238

<210> 545
<211> 255
<212> DNA
<213> Ratte

<400> 545
acataagtgt gtatttccat atgcatacag tatcacagta aggttaaagg tataaaccag 60
gcatggtaag aaatcagtaa gagtgttaatt acaacatacg gcatactgca agtcatttaa 120
aaaacaaatt acctctagaa tttttcctta gtatttttag atcacagttg attgtgggca 180
gcaaagatta cagaaagcaa agccacaggt aaggggaatc cactatgttc aaatccccat 240
tcagtggaca tcttt 255

<210> 546
<211> 250
<212> DNA
<213> Ratte

<400> 546
acatagtcag cagatgaaac ccctcttctc cagctectac ccgagagctg gctctaggcc 60
tgtgttatat gttctattta gctttttata tatgacctt gatctgtgta tttgaacacc 120
gtgtgtgtcc acttaccttt gtgcagacgt gcacattgct tatgtgtata tgctgtctc 180
atctagctta tcaagagttc ggcaggagag ggaagcctgc ggcgagaat gactctttgt 240
ggatagtgt 250

<210> 547
<211> 255
<212> DNA
<213> Ratte

<400> 547
acttggtata gggtactaat ctccaatgag tatcaccaca ggaataacca aaatcaaata 60
atggaacaga agactgacaa agtgtttcac atcctggaat tagataccaa gtcagaagt 120
ggggttgga gtgttgcaaa ggagactgta ggactaagta tattcttgta ataaaaccag 180
caatatcaac agagttatca tctcacttct aatttcttcc cctcaagaac aatttgaatc 240
tctttggcat ccaaa 255

<210> 548
<211> 255
<212> DNA
<213> Ratte

<400> 548
actcgaggca cagaaagctg tatgcaaaaa agcaccagag tcagacttcc ctcaaagttg 60
aaactctgga gcaagacaac ggggtggaaaa gcatgtccca ggaacactta aacggaaacg 120
tgctttccca actggaaaag gtgttctacc accttcggc gggccggaag gagatcgcg 180
aagcggaagt gcggatgata gactttgctc acgtgttccc tagcaacaca gtagatgagg 240
ggtatgttta cggtc 255

<210> 549
<211> 149
<212> DNA
<213> Ratte

<400> 549
acctggccta gtgcacttag ctttttttgt ttctttgttt tgttttgtga aacaggggtc 60
cctgtcctgg aactcgctct atagatcagg ctgggtttcaa actaagagag atctgcctcc 120
caaatgctgg ggttaaagga gtgtgctag 149

<210> 550
<211> 255
<212> DNA
<213> Ratte

<400> 550
acccttgggg tgtggtgcag gttgagaacg aaaaccactg tgatttttgg aagctgaggg 60
agatgctgat ccgagtgaac atggaggacc tgcgagagca gacgcacact cgccactacg 120
agttgtatcg gcgctgtaag ctcgaggaga tgggcttcaa ggacactgac cctgacagca 180
agcccttcag tctccaggag acatatgaag caaagaggaa tgagtctcct ggagagctgc 240
agaagaagga ggagg 255

<210> 551
<211> 255
<212> DNA
<213> Ratte

<400> 551
actgagatga aaagtgtctt aacttttagt atttcaaagc cagctttaat ttggaacagc 60
aacaccatcc ataaaaatcca gaacaagttc tcttggttagg aactttccat atgttatgat 120
ttggtcacaa gttgatagtt gttacatatc agtttccatt tctccattag aaaattaggt 180
aattgatgga ttctttgaac agaagcatca ctacttatta aaaagttaga tatatataga 240
atgcttttaa ggcaa 255

<210> 552
<211> 255
<212> DNA
<213> Ratte

<400> 552
acaagctttt tttttttttt tttttttttt tttcttcgga gctggggacc gaagtgtctt 60
accactgagc taaatcccca acccctcacc gttacatttt gtgtggagca tcagtcgcgt 120
gcctgagggc cttgcctata gagtctgtgg tcatcctgtt ggccaacagg tattcctttt 180
gttgaccacaa ttgcatttcc catctctctg tgggtgtgat gaggtgtgag tccctggatgt 240
aagtgcgaag agtcc 255

<210> 553
<211> 250
<212> DNA
<213> Ratte

<400> 553
acaaacagtg ctgcagacac acgtgatcgt tggactcctg ggcaatccta attgcctcct 60
gcagggcgag ctctgcctgt tgatagtggc cgaagcggca gtgcagggca gccaggttga 120
gagcggcgta tcttaggctc cggccataac cttcttcccc attacttttg cctctgtctc 180
cagtgagaat caggcgggtca aaataatgaa ggaggctgtg cgttgagctg aaaacatctt 240
gaacacggag 250

<210> 554
<211> 255
<212> DNA
<213> Ratte

<400> 554
actgcccacc ccagggagct gccaaatgtc caggctactg tgttctaacc aaatagaaac 60
agagctctac acttcagttc cacaaccact tctggccctc actgagccct gccaaagtcct 120
tactctgccc tacatgtatt cctttttcac acgaggcctc caccctgcag acttacagaa 180
ggccgggata tggtttgtgc tccttccctg cgggccttac ataaagtgtc cagaatcaga 240
gatccttgca ctgag 255

<210> 555
<211> 255
<212> DNA
<213> Ratte

<400> 555

acagtcacag ctctgctcca gtctatgtga cttttgaaag acctttgttc tgtgagctgt 60
gatcatgtgc agtggaccag acctgcttcc acctgcagga gagctgggta tccacattag 120
ccgcacctcc ccatccagca ctgcacccac ctgaggacat taactgggat ttgatggcca 180
gcaacttgta tgcgattcat taagtggccc tggcagagca gccacacca gctgcaaacc 240
tcggccaatg agggga 255

<210> 556

<211> 255

<212> DNA

<213> Ratte

<400> 556

actgttgtgg gcagaagctc tccaaagctc agactacatc ctgtgggcag ttcccaggtg 60
gggatgttcc cctggccttc accaccactg acctaccctt ttctccactt tccagagacag 120
cagtctccca cagggacttg tagaacagct agaaagggtc gtagttcagc cctggctgtg 180
gtcctcagca gagatgacag ttctgtgaac tctgccagtg cttcccccac tgacatggaa 240
aagtgtctga cttgg 255

<210> 557

<211> 255

<212> DNA

<213> Ratte

<400> 557

actcttacgg agaaccaaga tttgggttct agcatcctca aggtagctca caactctttg 60
taactgcagt cactgggaat ctaaccctct cttctggctt ctgctggcac caggtgagtg 120
tgatgcagac aaaaacttta aaaaaaatgc tacacatcat cttcagaaat agtagaagta 180
tatttctatt tgcaggctgt tgagctgagt ctccctgctg gtggactttg taactgactt 240
gggaagttat gaagg 255

<210> 558

<211> 255

<212> DNA

<213> Ratte

<400> 558

ctgaggttct gggccgcccc caagcagtga gttgtcactg tctccttagg gtggttggtt 60
agagatctga gtcattgctt cagatctcaa accaaggcca gggagggaata gatctaaaag 120
ccatgcttac cgtggagcac attctaagat aatatctgct gatactggta acagaggcca 180
gactccgagt tctggccatg gaaacaacat ggccggtgcc tctctgtttg gcttctggac 240
tgcaataaagc cagtg 255

<210> 559

<211> 255

<212> DNA

<213> Ratte

<400> 559

actggtggct ttttaattttc agcccacaaa tccaaactcc gctgtctcca ctttgcttag 60
ctgccccaga acctacccaa ttgcaaatcc tcccttttgt cttttgctca ctctgaccat 120
cttgatgaacc ctctcttccc catccttcag tggccatacc ttctctgggg aattttcctc 180
ccgagtccca agatagagct ccttggaaaa agctacccaa gattatggga gtaaatgcaa 240
tgagtgattt ctctt 255

<210> 560

<211> 251

<212> DNA

<213> Ratte

<400> 560

acaaagtatg gcctcagttt ctgactaata gcctcagaat tcctgctgca cacaggcagg 60
aggatatagca agcttggaca ccagaaacac atcactttga ccatcagtcg agctctgccc 120
agcatagaat actgttagct acttccttaa acattttagt ttctcaaagt gaaatgctgt 180

ccacttgagc agattgaggt ttatgcacga gaattctctg aagtcctatg tgattcagaa 240
tgctctgttg c 251

<210> 561
<211> 255
<212> DNA
<213> Ratte

<400> 561
acttggcaaa aacattcaac atacactgaa gccatatctt tgtttactga aactcaaaca 60
taattcttaa tgctttcaaa ataaatgttc ttaaaaattt tgggttacgg ggttggggat 120
ttagctcagt ggtagagcgc ttgcctagca agcacgaggg cctgggttcg gtccccagct 180
ccgaaaaata gaaaagaaaa aaaaattgtg ttactcaact ttaaatgta aacagtaatt 240
ttgacgaata attgt 255

<210> 562
<211> 255
<212> DNA
<213> Ratte

<400> 562
acaagactaa ttttattaag aagataaaca aatttattat aaatttataa atattcttac 60
taaccccagc aggaaacacc ttgaattgaa acatatatgg tagtttccag catattaaag 120
acatcagcaa gacaccggat tgatatttta actttttaaa actattaaaa ccaatttaac 180
acaaggcctt tttgcccctc ttgcaagact acctggaagg aatacatgtc tccctgcctg 240
tcaatgacac agatg 255

<210> 563
<211> 251
<212> DNA
<213> Ratte

<400> 563
actcatctac cttcaacagc actttccgta actcctcgaa gtagacaggg aaatctgctt 60
ctacctgaag gtcttcaata gcaaaaaagg atgccatcga ctggatgata tcaccagcaa 120
gatcaatata atcagtatcc accgtgatct caccacttgg tttcattttt atgtagagct 180
ggccaccgtt gcgtaaggac gtgaaacaga cgtgaaacgg ggcgttctga atgttactgt 240
cttctggcaa c 251

<210> 564
<211> 255
<212> DNA
<213> Ratte

<400> 564
acggattcac ctccctccgg ctgtggtgtg cacaggatcc acgctgggaa ttcattccac 60
gtgggactaa aggcgtaagg cgaccgggtc tccgtcttct gctgcgttca cctaaaacac 120
cgcgttattg ctacagccac actgaagtat ttgtttgcct tcattttaaag aacatccac 180
ttcacagctc tctacagatg ggcagctccc agggcgcttc cgtttgcctt cagctctgac 240
aggagcagat tccac 255

<210> 565
<211> 255
<212> DNA
<213> Ratte

<400> 565
acgaggacct gggctagatt ttgtgtcttt gtctttttct tctttttttt ctttttgttt 60
ttttcctttt gaaccagcca ccttataaga agatgattta ccatatgaaa atgctcattc 120
cttcaggaaa actaatatct ctatcttcat ctatttttgt ggaaatacaa aatggtttgt 180
ttaacataga ggggatattt ttgaagatgt aattgttttt tgttttgttt tgttttgttt 240
taactaatct ttag 255

<210> 566
<211> 255
<212> DNA
<213> Ratte

<400> 566
acgcacttac tctagaccac actaacaagt ttcagtgacc ttgagggcca agcaatgtcc 60
ccctggtaag agctcttggg ctgggtgcgtt ttccagagca gagccactgc aggtaaactg 120
tgcccagggc caccggccttg gcagagcctt ccctgtggaa gcaataacta gtttctgtga 180
gagaacctga gccgggagag ccgggcacgt agccagactg ggtcacagcc tgcattctta 240
tccctgtgtc ccctc 255

<210> 567
<211> 251
<212> DNA
<213> Ratte

<400> 567
acaaaatatt tagtaatag ctttgccatt cacagtgggc actttctgaa aaataaattt 60
tgtaaatgtg cttagaaaca agaattctatt tacagcctca gtcaaataac caagttcttg 120
gtgaatgaag ttacctcggg acaacagcat ttaaaagtaa ggtttgtgca agccaccttc 180
atattctttc tgggtgtgtg tgctttgtct tttagagaggt cactggactt actatgttgc 240
tgagaatgac c 251

<210> 568
<211> 255
<212> DNA
<213> Ratte

<400> 568
acatgataag gaattctgaa ttcttagaat tgactatctc agatcatatt tgctgagaaa 60
atttcttagt gttcttttca cagtgaacat aatcctaagt ccttggatat ttttagaagt 120
cttttaactt tacacaaata atgaaataat ttttttttta aattcaaagt gtctcaccct 180
acttggttaat ttgcccccaa ggaaagtgtt ttttaaaaaga aaaaaaaaaag gatacttgta 240
gagttagtga aatgg 255

<210> 569
<211> 255
<212> DNA
<213> Ratte

<400> 569
cnatcncanc nangacatcc ttncnnagag ggncngaan gngnccancn nntccatan 60
nccnttntcn cncntntnnc nontacctna nncngcncn ttttnggaan cccctttcn 120
cggnaaacct ttnggaaanc ccnnttctca cnatacggcg agnngaggcc ctctagcatg 180
catgctcgag cggccgcccag tgtgatggat atctgcagaa ttccggctttc naggcgccgc 240
ccgggcaggc accct 255

<210> 570
<211> 255
<212> DNA
<213> Ratte

<400> 570
gtgatggata tctgcagaat tcggcttagc gtgggtgcgg ccgaggtact tttaacwrwg 60
ggctgacttt aaagctaaga acawggcnnn mtnnnnnnnn nnnnnnnnnc ccaatcccat 120
ataatactca ygcattgctt tgcttataca cagacttctt tccaccaccg ttgttgaagt 180
ttttgaaggc ttgaaaagggc aaacwcvhhh wattggctgc tgaccaatgt ckctcgctgg 240
ctgggtgctc agacm 255

<210> 571
<211> 255
<212> DNA
<213> Ratte

<400> 571
 caatgtttac agatgggtga cgtttgcact gccatagga atggtgagac tatgttacca 60
 gacccttaga tttatgagta ggtggttgca gtttaagccta tgagaggatc tggtgagcct 120
 ttttaaggcta agctggtaag agttccgaga cagggtggtg gtttagagtga tttccttagac 180
 ctcaactggg tctttctgtt gacagttctt catggcttca agcagatacc atatgctttc 240
 ttttagaggag ctgcc 255

<210> 572
 <211> 254
 <212> DNA
 <213> Ratte

<400> 572
 tttttttttt ttttttttta aaatattctg cttgtkctca cagaaaaaat accattnacn 60
 canagncccn ancaangncc taagttttty aatggcanca cnattataaa ggntacaaaat 120
 gacctaacag gaacaanaaa aaahhgtgtt attnnnggcc cnnnnnnnrcn cttgagtttc 180
 taaactgtca gtaagcagtg aaaggtgtcg gattaactac ttggtaatgg ccaggaaaat 240
 acgatgaaga tggg 254

<210> 573
 <211> 241
 <212> DNA
 <213> Ratte

<400> 573
 acaaggaatg cttctccctg tatgacaagc agcaaagagg gaagattaag gccacagatc 60
 tcttggtgtc catgaggtgc ctgggggccca gccccacacc tggggaagtg cagcggcacc 120
 tgcagactca tgggaatagac aagaacggag aactggattt ctccaccttc ctgaccatta 180
 tgcacatgcc aatcaagcaa gaggaccaa gaaagaatcc ttctggcatg ctgattacag 240
 a 241

<210> 574
 <211> 255
 <212> DNA
 <213> Ratte

<400> 574
 cttccttgaa ctactttcag aggccttgta actcaggagt gcgaccaacc gtgcttgaac 60
 ccccaggtct aaatgtgttt tcaggcatatc tgcagaaagt aactatcata aattcctaata 120
 agctggaaac caacatttcc taaagactaa aatttggttc aaataaataa atgagcaaag 180
 tcaggtaata accttttcaa aggtggagtt tggtagtctt gagtgatact acctattcct 240
 gagtctctg gatac 255

<210> 575
 <211> 255
 <212> DNA
 <213> Ratte

<400> 575
 acacgggtggc acacatacta ggatagattt gcttcaacta agccccacgg ggagatgcac 60
 ttcatatcaa atttcctttt tggttccttt gagggagaag gattctgttg gacttacaaa 120
 ggggtcatgt atatgcagaa agccttccca tcatttgtca ttgtgacctg tggcaagcca 180
 tcatcagtag gaaaacaaaa caaaacaaaa caaccaaaaa aatgaacaaa aaaccgaggt 240
 tagtctaaaa tctaa 255

<210> 576
 <211> 255
 <212> DNA
 <213> Ratte

<400> 576
 cttattgata agtggatatt agcccataag cttggaatac ccaagatata attacagacc 60
 acatgaagct caagaagaag aaagacaaaa gtgtgaattt ttcagttctt cttagaaggg 120
 ggaacaaaaat actcacagga ggaaaaatgg agataatgtg tgaaacagag actgaaggaa 180

aggccatcca gagattgccca cacatgggga tacatcccaa atgtagtcac ctaacccagt 240
cactattggg gaggc 255

<210> 577
<211> 255
<212> DNA
<213> Ratte

<400> 577
actttgtaag gaaggagaaa gagaatgcac cctgatacaa aaaatattgc ctatttatat 60
attagcaaag atttatgaaa cacattccaa atcaaatgtt gctatggaaa caacagactt 120
aagtagagaa gcacaaagtc ctgaagcacc cgcaattatt ttaatcagga aaaatgatat 180
atttatatat gcatatgcat atatataatt tgagaagaaa taaaggcaaa attctaactt 240
taatcagagt ttgta 255

<210> 578
<211> 255
<212> DNA
<213> Ratte

<400> 578
acaaagacct tctttcatgg actactttga taagcaggac ttcaagaaca agagtcatga 60
aaattgtgat cagagcatgc gtgagccatg ccctatgtca aacaatgttt ttcttgacaa 120
ctggagagtt cctcaagatg gagactttga ttttttaaaa aatctaagtt tagaagaact 180
acagatgcgg ctaaaagcac tggaccccat gatggaacga gaaatagaag aactgcatca 240
aagatacagt gcgaa 255

<210> 579
<211> 255
<212> DNA
<213> Ratte

<400> 579
actttaagga aatttatgta gcatttactc atccatcggg tatccggccc ctttctatta 60
cccaggcatc agtgaacatc agcaaaaaaa aaagtatatc ttgtgaagct tactttctca 120
gatattgttt taaaactatg ccattataaa atagttatca tctagggttg agtaggtagc 180
atttatgcag aaaggctaca gtcccaaagc agctaccata aatatttttg aagctattcc 240
ttttcacctt aagat 255

<210> 580
<211> 255
<212> DNA
<213> Ratte

<400> 580
actgcatccc caccctacc tcaagagtgc ctcacttcta caccgagctc ctcaactcaaa 60
cttggcacc agggaaatagg atgggtttct caattagaaa agacatatat atccacacac 120
ccatatatat aacttttttg tttttaacat tttaaataaa aaatactact ctgctttgag 180
ttataaatgg aggaccaaga aacttttttc ttcctttaca gtagggccat ttgtcagggtg 240
aactgtgttt catga 255

<210> 581
<211> 255
<212> DNA
<213> Ratte

<400> 581
acaatttaga aataaattat gaattattcc taaaaatata caaatgtaaa gtgaaaactg 60
aagttcttct gtattgcata gtagttcaga ttctctgtgg aaaccataag gctattttgt 120
ctactttgca tgaatacttc agacttgat ttcagagcca agcagtaact aaaatgtgga 180
ccttgctttt cagagataag agttcttaat tatatgcctt taagtgtttc cttctagggt 240
tcccaccaag tgttt 255

<210> 582
<211> 255
<212> DNA
<213> Ratte

<400> 582
gcttagcgtg gtcgcggccg aggtacctgt ggtgtttgat atatagatga cagtttagacg 60
cttactagtt ctagccttca aaggaggtag accttgggtt tcacccata aatttctggt 120
ggtggtgata actcataaat gtatgtttgt atggtattta tcaactaaat agcagtagaa 180
atagagatcc aattccttta gtacctgccc gggcgggccc tcgaaagccg aattccagca 240
cactggcggc cgtta 255

<210> 583
<211> 255
<212> DNA
<213> Ratte

<400> 583
nntagnacgt nannctcggt cctctcttng agcacgcttn agcgcccgcc agtgtgatgg 60
atatctgcag aattcggctt agcgtggtcg cgcccgaggt actaatcagc cttgaacatg 120
gtttacagct ttctccttcc gagcagttct tttcagagaa gaaatcagtt ttgatctttt 180
atagtcggtg cttgttgaaa acaagctttt tctttccccc aatgatgacg cttcattttt 240
gaagtgttga agctg 255

<210> 584
<211> 255
<212> DNA
<213> Ratte

<400> 584
acnctactan ntagnacgtn antntctctc gagnccact ntactatagg gccaattggg 60
cctctagat gcatgctcga gcggcccgcca gtgtgatgga tatctgcaga attcggctta 120
gcgtggtcgc ggccgaggtc caagcttttt tttttttttt tttttttttt ttttttagga 180
tcacagatac nctgtttatt caaataaagc aagggaaca aagggcgnc tttctaaact 240
ctntntatatt aacag 255

<210> 585
<211> 255
<212> DNA
<213> Ratte

<400> 585
acnccctnnt agnacgtnan gngctctttg gaataccact tctatanggc naattggggc 60
ctctngangc angcttgagc ggccgcccag gtgatggata tctgcagaat tcggcttttcg 120
agcgcccgcc cgccgaggtc ctaaattggt agttcttgaa gtctaactct gtgctaacag 180
atcttcattt taaatagaat acggttttaa tttttgataa gctgctgaat tttaaagaga 240
gttttttggg gccac 255

<210> 586
<211> 255
<212> DNA
<213> Ratte

<400> 586
acaaaagtcc totcagagat caaatggcca tctccggag atgcttcacg ggtatggctt 60
tcagtcattc tcaagttcta gccatgggac caacgttagt gttctgtgtc acgtagccac 120
aggtcacggt tacatgtcat ggcttaggaa aatactggca ttctggtttc tgtgaaataa 180
gccttacctt gtgcattcaa gcaaaagga aaaacaggca aaagaaaaaa gggggatggg 240
gagaaagcac tgtcg 255

<210> 587
<211> 255
<212> DNA
<213> Ratte

<400> 587
acnccctnnt agnacgtnan gtngtctcag ncganannnn cnnnaccrnt cncnctncc 60
ccntnctccc ncnctnccncc nnattcnttc gaatccactt ttgantaccc gtngaattgg 120
gccctctaga tgcattgctcg agcgcccgcc agtgtgatgg atatctgcag aattcggctt 180
agngtggctcg cggccgaggt actgtaatgn tgncaataat ggnggaatat atatagtttg 240
acagaatcat attaa 255

<210> 588
<211> 255
<212> DNA
<213> Ratte

<400> 588
acnccctnnt agnacgtnan tntctcgaan ccccttntnt aannccctng aagnccacnt 60
ntcactatan ggcgaattgg gccctctaga tgcattgctcg agcgcccgcc agtgtgatgg 120
atntctgcag aattcggctt tngagcgcc gccngggcag gtgcttcaga antcaccagg 180
acttcacttt taggaaaaac cttgtggcag ccaaggaccg gcacacacag atccaggagg 240
aactgcagac aaatg 255

<210> 589
<211> 255
<212> DNA
<213> Ratte

<400> 589
nntagnacgt nannctcttt gaancccttt ngnaannccn tngncccttt tgaccncttt 60
agcngnccgc gtgtgatgga tatctgcaga attcggcttt cgagcgcccg ccnnggcagg 120
tgcttcagaa ctcaccagga cttcactttt aggaaaaacc ttgtggcagc caaggaccgg 180
cacacacaga tccaggagga actgcagaca aatggagata caaacagtcc cagggacagc 240
aacagtcacc ccac 255

<210> 590
<211> 255
<212> DNA
<213> Ratte

<400> 590
ttntaaggc cnattggggc ctctttannc annctntagc ggncgccagt gtgatggata 60
tctgcagaat tcggctttcg agcgcccgcc cgggcaggta caagtgtgtg ctaaaagtga 120
gtcttagacc ccagatactt tgtcactcat attacaaagt tgacataatt ggctaaaatc 180
agtctgaaga tttttattca ctgagaacta tggttattaa aaccaagctg ttgacgaaaa 240
tataagttaa aaata 255

<210> 591
<211> 255
<212> DNA
<213> Ratte

<400> 591
acctttggga gtgcgcttct tcggctgtgg agccctggaa gaactctgaa gggcgctcctg 60
tccgatttgc tcgtccatgc acacagatgg aagcagccgc cattggaggg gaggaatgtg 120
tccttgggtc gaccgacagg tgtcgctttt tcatcaacga cactgagggt gcataaaata 180
tcacgtcatt tgcagtgtgt gatgactttc tactggtgac aaccattcc cacacctgcc 240
agtgtttctc tctaa 255

<210> 592
<211> 255
<212> DNA
<213> Ratte

<400> 592
cncctnnta gnacgtnant ntctcttgn gacnacgtnt cactataggg cgaattgggc 60
cctctagatg catgctcgag cggccgccag tgtgatggat atctgcagaa ttcggcttag 120
cgtggctcgc gccgaggtag agcccatcta gccctcagnt gccagaggga cctctcctac 180

aaccttataa tgtaagtatg ccttgccctc cgcaccccc accttagtga aaactattgc 240
cttacaccta gtcac 255

<210> 593
<211> 255
<212> DNA
<213> Ratte

<400> 593
acaagatccc cacctgtatg caattctctg ggcatctgt atccctcacat cttcaagaga 60
aacctcaccc atgaacacgg caccattaag cccctttctg taatggattt caatcacatt 120
tactgctgag attactcagg caggtgagct gatgctggac acgaaccctt cagtaaaagt 180
cagtttttagg caacccttta gttttccttt agacaggtat ccacagtcca taaggacttt 240
ttttcttatc tattt 255

<210> 594
<211> 251
<212> DNA
<213> Ratte

<400> 594
actctgcttg ttgagaagca gccagtggct gaacctgagt aggtgggtta aagtatctgt 60
gcctcatgac acagacgggt gtaaaaatct gaagtgtatt ttatcagcta cctggatgtc 120
agtgcacaca gacgtgcact cttctcatga ctgcaacagt gatcgggaag aggaaaacc 180
tcaactctgc ctttggctct gtgaactaat ttcagttcag attctaagct gtgtcactc 240
ccattttgaa a 251

<210> 595
<211> 255
<212> DNA
<213> Ratte

<400> 595
ccgctccaca agcacatgca gcgagacttg atcagtgact agtcctgtc gtcgcatcag 60
cagctctaag tcccttggct tcacagtctt acggccggca tgagcagcaa atacctccag 120
atcattgcaa aggcgttgga aatactcgtc taggcacttc tctaccatct caagagccac 180
tttctccacg ggcattcttag tatggaaact gaagagcttc acatagtggc tcagtccggc 240
cttgtagggg tcttg 255

<210> 596
<211> 255
<212> DNA
<213> Ratte

<400> 596
caggacacac tatagccagc tgcgcggccg ggctgagggc tccagtttct gcacagctcc 60
agaggctttc caagttaatt ctgaacatgg ctaaagggaag agaggccaac attttctaaa 120
ttgcacaaa tggcctgaaa gtgtaaaaaa cactagattt ttctttaaaa gctaatttgg 180
gggtggtaga gtttaaggaa atgtctatat gtattttact caagcaataa aattagaata 240
aggatacagt tttgc 255

<210> 597
<211> 255
<212> DNA
<213> Ratte

<400> 597
accttttagt gagggccctt aaatttggga aagttccatg gacagctaag tttattcttg 60
aacataaaat aaggaggaaa aatgaactta tgagaacaca attgaagaaa agggaaagaa 120
aggtttaagt tcagttgcat ctagattcga ggaaacatga ataaaatttg attagattcc 180
gtaattacat gggatattat tttgaacgca catgttaatg tatgcctgct tactgattga 240
gcattctatga gccga 255

<210> 598

<211> 255
<212> DNA
<213> Ratte

<400> 598
acacactccc aaacagttaa acccagctct gattccaact ctgcaagagc ttttaaacaa 60
gtgcaggact tgtctgcagc agagaaactc actccaagag caagaagcca aagaaaggaa 120
aacgaaagat gatgaagggg caaccctgt taagaggcgg cgagtgcagc gtgatgagga 180
gcacactgta gacagctgca ttggagacat aaagacagat gccagggacg tcctgacccc 240
cactagcacc tcaga 255

<210> 599
<211> 255
<212> DNA
<213> Ratte

<400> 599
acagtgcagc gcaacgacaa gaaaacccaa ggccggacag gctggccaca gcacgtctgg 60
gccctggagc tcaagcagtg acgaagagga gagctagtga gccggggggc aaggcgccag 120
atgctgaccc aggactcccc gaaagccctt ggtctctgtt ctgaggactt cttgcagtgt 180
gatcatccgg tttatattatg tgcaatttcc ttttccctct ttctgcccc ccccaacctt 240
tgaggcatct gctcc 255

<210> 600
<211> 251
<212> DNA
<213> Ratte

<400> 600
acatatattca gtagcatgag gccgtccagg gtgtgcatga gcaagaccat gatgccagga 60
ttattttattg ctaacagaaa tggctacctt tgtaaataga cctcattgag ccaatcactg 120
aactctttgt aagcacattt cccccaaagt ccagtgttta gacgacagtg gcaataatgt 180
attcattcta gtagtcagt gtaaccaggc agcttgtata ggacattgat atttaccctg 240
gttgctgtga a 251

<210> 601
<211> 255
<212> DNA
<213> Ratte

<400> 601
accacagaag aggagattca agaaatctgc atagagacac ttagacttta taccaggaaa 60
aagcctaact atgaattgct ggaaaaggaa gtgaaaaaaa gaaaagtagc cttacaggag 120
gccaaagttaa aggcaaaggg attgaatctt gatggaactc cagccctttc cactttaggt 180
ggtttttctc cagcctccaa accatcatca ccaagagaag taaaagctga agagaaatca 240
ccagtttcca ttaat 255

<210> 602
<211> 147
<212> DNA
<213> Ratte

<400> 602
acacacaaat actcttcttg ttctgataaa ccctggatgc ttgcagtga cttttctagt 60
gtattttctca tttctcgttc gctctgcttt aacttaacta tggcttcttc atgttgtacc 120
tgcccgggcg gccgctcgag ccctata 147

<210> 603
<211> 255
<212> DNA
<213> Ratte

<400> 603

```

acaaagaact cagtgtcttc cggagcaaga cacaatggtt gccacgggga gaggccaggg 60
cagccaagtc acccctcctc agagggggaca ggctccacca tcagggttcac cagtttttga 120
aaataaaaaa aggaccagaa acagtgtctg tttggttgct ggtgctcccc ccaccccaca 180
gcaatgctga agtctgtcca tccagttcca agcaaataca gagcaattcc aaccaacacc 240
catctttgaa aaagg                                     255

```

<210> 604
 <211> 255
 <212> DNA
 <213> Ratte

```

<400> 604
acacatatat ttatatatttg cttgtcttcc cgtctaggtc atcagtttct acctttaagc 60
catttatatta aaaagctatt gcaactgtctt ggtgaacagt gtgtggggct tcaataaaaa 120
aggggtcttgt gcgtgtctac atggttccac ctcttacttt ccaactgttt aaaaaaaaaca 180
aaaaagtcgc atatcccaag gcaacaaacc ccacagaatt cccgaaccaa tgggcgttgc 240
aaaaggaagt ggagc                                     255

```

<210> 605
 <211> 255
 <212> DNA
 <213> Ratte

```

<400> 605
atattgtggc acatgacaga acagaacgaa ataactaaac tgttatgaca ttaacggtta 60
ccatgcattt agagtttccac atgtaactac aaacttattt aaatttcaca aagtttgcta 120
aacatgccga ccatctatgt gtgcactgac aagcttatgt taaaaacttt taagaatact 180
ctccccctta gatttttttca aagcttttgc tttgattaca aaatttcaaa ggcattaagc 240
aattaagaga atata                                     255

```

<210> 606
 <211> 255
 <212> DNA
 <213> Ratte

```

<400> 606
acctggaag gctgaagctg ggggtgttctc cgaccaatgg gaattccacg gtcccttccc 60
tcccagataa caatgccttg tttgtgactg cgcaccacc ctctgggggtg ccatccagta 120
taagatagag agctggggcc cctccccac cgtgtcatgg cacatgtcag agggagagag 180
gcttttttac ttctaacaca tctgactgct gctggcagac tctagatttg ccatgcaggg 240
gtttcaaata atttg                                     255

```

<210> 607
 <211> 255
 <212> DNA
 <213> Ratte

```

<400> 607
acagctcctg tgagtcagca cacagcaaga ccgggcttct gttgggcctt tgtgacttct 60
tacaggtttc caaattggaa aggacaattc atttgggtat tcaaccttgc taggccccag 120
caggagatag gctaatatct aattagctta ttagccatgc catagtcccc tgactggaaa 180
tggctacctt gcccatgcta aggtagatat gccaaagagc tgcccggctc tgccctgcca 240
ccacagagac gctat                                     255

```

<210> 608
 <211> 255
 <212> DNA
 <213> Ratte

```

<400> 608
acacattctg aagtcaccct gaagattaac tcagccgagc aggaaataaa attgctcacc 60
gagcgcttga aagatttgga agacagcaca ctacgaaaca tcagaacagt gagcaggcaa 120
gaagaggagg atcttctgag agtagaggcg cagcttagct cggatacaaa agcagttgag 180
aagctagaag aagagcagcg cagctccta gccagagatg aagatttgac cgataagctt 240

```

tccagctacg agccc

255

<210> 609
<211> 255
<212> DNA
<213> Ratte

<400> 609
aaagaatcat ttaatgtggg ggcagaactg gcacagacag aataaataat agtgcttttg 60
ggagagtagt gatgaactgg gtaggcaaga aagagcctca gtgtggacgt gatcacacag 120
ataacatgga gatgtgcaaa gttgcggagt ccatgacaga aatggcccaa cccaccaga 180
tagcttctct atttggttgt caactacagg gaacagacta ggcccgggtga gcacaggggt 240
gggagactgg agaaa 255

<210> 610
<211> 200
<212> DNA
<213> Ratte

<400> 610
acctataaca tcacacccaa caatatcaac tttatatagg tatttgtcaa aaaaaattag 60
gccatttctg ccaccattca caagcttaat atgttgcttt attttttttc ttgagtcctt 120
gataaaataa aataattatt aaaccataaa ataacctttt ccacttctaa tcttctgaaa 180
gcaacaggca ctttgatgtg 200

<210> 611
<211> 251
<212> DNA
<213> Ratte

<400> 611
acatgaaata atactgtgct tccattggat tttcttttcc agtgtgggaa ttgtgaggag 60
tgctgtggat ttgctctctt catagcagtg ttcttgatgg aagtttaacc tctacaaatt 120
tgctgttgac gtagtgtgat tgaaaattgg cctccttaag tgggcctcct attagtcaag 180
attagctggc ttgattgtgt aatctgcaac aaaaaggaca atgtttcctt agtctctgat 240
ggtaggcaga g 251

<210> 612
<211> 255
<212> DNA
<213> Ratte

<400> 612
acataaaaaag atatttacag acataaaaaac attaaaaatg acttcagaaa taaacaggac 60
tctacaaagg atacttaaca ctgaaaagct catactgaca aacattttaa ttgacagact 120
caagttgata ggcacataat acaaaatttg taaaacgtgt ctcagaggct aacactgaag 180
cacatctgtt ttcaagactc cataaaaaat ccagacttca cttgccaaaa agtccaatca 240
attttgtctt agcat 255

<210> 613
<211> 255
<212> DNA
<213> Ratte

<400> 613
taagttgttg ctataattgc atagaataca gacgttgctt taactggaag aggttgttat 60
agataacctt gattatcacc cagatggcat ttagaaccac tatggaaaaca cccctgggtg 120
ggctcttgag ggtgcctcca gaagaggttt aacagagaag agggaaggcc caccctagac 180
accagtagca ccattccacg gactgggggt ataggctgaa tataaaggta aaagcaacgg 240
agcaccgcga ctcat 255

<210> 614
<211> 255
<212> DNA

<213> Ratte

<400> 614

```
acctcttatt gaaatgaaaa tttagatgta atatataaag tgctagcggt tagttcattg 60
cctttgttga gatagtcatt ttaacatttta gaattcaaca atattaataa atataatttc 120
gtagcatgct ttcaaaaaaa tgaccatttta ctaaggataa aaagattaaa aaggggtgcc 180
tgcagagatg gttcaatggg taagtgggtcc tgagttcaat tcccagcaac tacatgggtg 240
ctcacaatca tctaa 255
```

<210> 615

<211> 255

<212> DNA

<213> Ratte

<400> 615

```
acattgggaa ggcagtatgg tcatggggaga tcaacaagca cagcttggtg gggtaaccgg 60
ccatgaaata tcaactggctt taataatttta ctacaactgt tcttttttatt cacactgata 120
ggacgtgctt ccacctgtcg catggaatat gaatatatac aacaaagtgt ggcttatata 180
aaaaaaaaag aaacctccat atgggacaacg gggggggccaa accaatgaca catgcagttt 240
gctaattaca accac 255
```

<210> 616

<211> 251

<212> DNA

<213> Ratte

<400> 616

```
acacacagta gccactccct accacctctt tcttgaaaag tgaaatcttt taagcagggg 60
agctcagcat cagtttactg cagctgtgat ttacaataa cctttctata ttgagcctat 120
ggggtatgaa gatatgcaaa atcctgttcg tttagagcca ataaaagtgt aactgatggt 180
caatactggt ttagaaattt taggtcttct aaaccatagc tttttcaggt ctgaaatcat 240
tttattgcc a 251
```

<210> 617

<211> 255

<212> DNA

<213> Ratte

<400> 617

```
acttaagcca cattatagaa ataaggcatt tttatctagt aaaaagctta cattccattt 60
tgagatatat gataaatttta gaaatgattc attcatggaa aaatgtagag ttacctgtat 120
agggtgcctat ctaggcctta gagagagatg agtagacaga gaagtccagg ctgagattgg 180
gcagaggaag cataggcagc agaaaaatgct aagtagttta gatattaagt taatagatcc 240
tgatatagn gctcc 255
```

<210> 618

<211> 255

<212> DNA

<213> Ratte

<400> 618

```
acaagctttt tttttttttt tttttttttt tttttttttt ttttaatttta taattatttt 60
aataaccagg tttaacattaa cagtcacttg atgagctttt ttgtttgttt gtttctttat 120
tctcagctaa ctcaatacac agttttcttc acggttcaaa ccaaacagct tttccatatt 180
tgagctgcct cacagctagc acaggtcaca aggagactca ctggctgtcc atagccacca 240
gacacagaac tgaac 255
```

<210> 619

<211> 100

<212> DNA

<213> Ratte

<400> 619

```
acccccaaat acaagcaaac cacaatggat gctgtaaaaat ccatttctgg ggcaaaaagt 60
```

ttttttgttt gtttctgttt tttggtgttt tttttttttt

100

<210> 620
<211> 255
<212> DNA
<213> Ratte

<400> 620
acaatgaaga cttaaaaacgt caatataaaa tgtaaattaa ttcattaaga aactgaaatt 60
tatggactct gcacaggtga acaggtagct gttttaaatg tctttctttt ctatagtaaa 120
tatatatattc atttaaatgga atcacaggaa aatacaacta tagtttcaaa gcgcagtcctg 180
taaactaaca cattatatat gaaaaaacact ttaccttttt cccactccaa gagtgcagctt 240
taaggggctc aagag 255

<210> 621
<211> 112
<212> DNA
<213> Ratte

<400> 621
tttktttgtt ttaattctcc atatktttam agtgcaacaa dgttcaamaa actactgaca 60
gtaataacct aggacgtcac agtaatggga ctttcagaat taaactgctc ag 112

<210> 622
<211> 253
<212> DNA
<213> Ratte

<400> 622
actcttacgg agaaccaaga tttggttctt agcatcctca aggtagctca caactctttg 60
taactgcagt cactgggaat ctaacctctt cttctggctt ctgctggcac caggtgagtg 120
tgatgcagac aaaaacttta aaaaaaaagc tactctyyct tcagaaataa tagaagtata 180
taaataaawa maggctgttg arctgagctt cctgctgtgt gactttrtaa ctramttggg 240
aagtaatgaa gga 253

<210> 623
<211> 255
<212> DNA
<213> Ratte

<400> 623
agcttttttt tttttttttt tttttttttt tttgtttgtt tgttttgctt tgtttttaat 60
aggcatgcaa agattaaaagt agtgaaataa aaaataaatg accctagatt gggcaaagaa 120
aaccatcttt atgaagaaga aattttaaatg ctggattnnw aaattttaaaa gacctggcct 180
tatgggtggg tgtttatcgg taattttaaaa ccaggcgaag ttggtagtag gcaaattttt 240
aaaaagtgat agagt 255

<210> 624
<211> 255
<212> DNA
<213> Ratte

<400> 624
acaggaactg agaacactgg atatagccct cctccatctc ctcacacttg tctgcagcgg 60
tttcgatgtc actgatggtg gaggcaaaga tagcggctcc actctccacc agctgcttgc 120
agaggtggac actgttgcaa gkgcggcac agtgccagycg tgtccatcca tcaactgtctg 180
cagcattcac attgacacca aagtccagca gaaacttcac gatatggtgg tggccagcac 240
agacagcatt gtgta 255

<210> 625
<211> 255
<212> DNA
<213> Ratte

<400> 625
 actcatacat aaagacaata aataattaaa aaaatgaaag acccaagtcc aagcctgtgt 60
 aacagaagca cttggggagaa gcagcaaagt atgaagaaag tgcagcagcc atcgcttaac 120
 aatatctcac tgcataagga ctgctagact gaacaatatc tyactgcata aggaccgcca 180
 gactgaacaa tatctcactg cataaggact gccagactga acagtatctc actgcataag 240
 gactgctaga ctgaa 255

<210> 626
 <211> 255
 <212> DNA
 <213> Ratte

<400> 626
 acaagaaaag agagtttctgc ctacaagtgc ctctcatggg cagggttctg ttcctgggtgc 60
 agactaggaa tgttaactcc cttgggttcta ggaccagcat atcttaattct ttcaacgaag 120
 cagatgatat ggaagtccctc tggagactga agccacttgt cttagtctct tgagcaaatg 180
 aacagacact gctatcattt gacaaggaaat tcagactcag aacagagaca acaaagtatt 240
 ttwdwadata attat 255

<210> 627
 <211> 255
 <212> DNA
 <213> Ratte

<400> 627
 acctgcactc aaagcgggcta caccttgagt cccatttcca cagcgtcac aygtgaagca 60
 atcctgggta gtcagccttc ccttgaagtc acaagtgcc cttctgatat tagaataactt 120
 cactgccagg tgtttctctg amtctccct cgatgtgggt cccwhnwggc agctgctgtg 180
 tttggttaaga ctgggttccca caggatggta aatatactag tttatctgat gatgctaaca 240
 tgctgactca ggggc 255

<210> 628
 <211> 255
 <212> DNA
 <213> Ratte

<400> 628
 actgaagawa agagttttta tgacttaaaag gatacgttgt tttttacaca gtggatagct 60
 tgacagtttg ttcttgatac tgccatcagg gacacccttg ttttgaatgg gcttccttgc 120
 tatggtggga aacactaagg aacattggga tcctatgddc tgttggttgc aatgatgctg 180
 gcttctggac agtccctctga tgtgggagat tgtgggttaga catccaaagc atcactccag 240
 tcagccacag tgact 255

<210> 629
 <211> 215
 <212> DNA
 <213> Ratte

<400> 629
 acaattaatg tatacttaga gaaaccagga taaacatttc tactatatct taactgaact 60
 tgcctagcca acattttcac tgagaaaatt atcaaatatg ctgttaagatt ctacaaaatt 120
 gtgagacata cctagcttca ggattatttc ttatgcthht tcttattttg gttacacata 180
 atctgctcag attctacagt aatgcttcta gatgt 215

<210> 630
 <211> 255
 <212> DNA
 <213> Ratte

<400> 630
 acaagcnnntt ttatttttttt tttttttttt tttttttttt tttttttttt tttttttttt 60
 tttttttttt tttttttttt tttttttttt ttttttcccc aaaaggggaaa atttaaaaaa 120
 agaaaaaaaag gktataatgc cmaaaamaaa aaaataaaac ccaaaacmga traaaaaaga 180
 ggggagggggg aaaaacmacc caccgacmac cagggcgggc gctggggcag ggggatttgg 240

attmagggaa acmgg

255

<210> 631
<211> 255
<212> DNA
<213> Ratte

<400> 631
acattaaact ttacactatt acatgtcgaa cccaacgttt ccacatgggt ctgtttgcaa 60
agrtcatggt cagtggattt cattttctac aacaaaaacc atggcaactg tttttggcaa 120
agarattaga aaaatatgag cttagagtta gagacgagaa tctgtgggtt aaagcatgga 180
tgcattgrrga gccttccatc cagaggctcc cacagttctg cttttcatgc agctaactta 240
agrggrtrtt tsrgc 255

<210> 632
<211> 254
<212> DNA
<213> Ratte

<400> 632
acaagctttt tttttttttt tttttttttt ttttttttagg ggaaagtcta ctattcccttt 60
aatcttgtaa gaacactgag agaaaaaggc aggggtatgta gaatatggat aaattccctt 120
ataaaaacttt ctttacacaa ctttagcaga ttaayygtaa ahttgtatggg aataargttc 180
acacattttc ttgttttagta aggggtatcca tgggggtaac tttmattttg acggggagcac 240
ctggttwgy atcc 254

<210> 633
<211> 255
<212> DNA
<213> Ratte

<400> 633
actntctgtg tgactncaga tgttcctcat ccagctgntc ctcaataggt ntttcctggg 60
gaggattcca ccacttggnc gcgatgccag gattottntt cacagcctga ctccnaatga 120
gttccctccg ctccctctcc agctctatca tctcctcaga gggcctcact ttccgggatgc 180
agaactgntc cttctcgtgc tgcacctcct caaagagctt ggagggtctt ttgectentg 240
gaaggcacgc agctn 255

<210> 634
<211> 255
<212> DNA
<213> Ratte

<400> 634
acatggccgg aacaccanga gtatgngaca tgcgagcccc agtccaagga ccaggntcgc 60
tggaagncca nccagcccag tgccaagcac ggnccgggga agcngnctna nanatnccag 120
ccgcttanac gcctttcacc ttgggcaagn agaccaagga aggacacagc nactactaca 180
tntccaaacc tacctaccat cnggaaaccc agtgcctgaa tgatgaagggt gacnggcaat 240
ggcnnaatna ctac 255

<210> 635
<211> 255
<212> DNA
<213> Ratte

<400> 635
ctatctgttt ctatgatttc ccgagatttc tgggaggatt tacttgctga cttgtatttc 60
ttttctcttg ctgtaggctg aggggaagat ttcgactcct ttttgatgtt aggtttcctt 120
gagcccttgg tggctgcctt atgcctgctg gagggcatgc tggtagccat gtccacaggg 180
gtctcacttt ctatcttcag gcctccgcgg ggctcttcag cagctgactt ctacgttttt 240
ttgggttggg ttttg 255

<210> 636
<211> 255

<212> DNA
<213> Ratte

<400> 636
actttgcccc gactcgaggg ctgaggggact gaggaaaacc aaaactccac tcccctaccc 60
cgcctcccga tttggwttcc acacattgggt tcctctgaat gctgcttgct ttgctaagtt 120
tgggcatgta agaccttaag ggggtgggtgtg tgccawgmmt gcccattgtt ctaggcagtt 180
ttagcttggtg tcttcacata gatgagagcc tactgtctgt cagtgaaaar agtgggtgctc 240
cagggatatg gtgct 255

<210> 637
<211> 255
<212> DNA
<213> Ratte

<400> 637
acaagctttt tttttttttt tttttttttt tttttttttt ggaaganaat tttattagct 60
tcacgagaaa gagctgccac gagcaaagac ctgcttgagg ataggactgt ggtggcttcc 120
aaccaaaatc gtagatgant ccacctgntc cctncacatc tgtggaaaga gtctaagcgt 180
gacacccaag aacaccttac tggcttgccc tctgggnatag acacagactt gggcaaagca 240
acccttgctg gacat 255

<210> 638
<211> 255
<212> DNA
<213> Ratte

<400> 638
actgtaagcg agagtccgct gcctgtcctg ccaggcagcg ttctgtgaag gctctcagag 60
acgctcgctc ttgcacacgt ctgactccgt gtcaggctca ggtcctggga gagtgaaggg 120
gtggacactc ggggggtgggg ggcttgcan aacacacagg atttccagat agtgtcagct 180
tatttgaaaa ttaattttct ttgttaaaaa taactatatt aacccttgag tggcttcttt 240
ttaaaccaaa aaact 255

<210> 639
<211> 219
<212> DNA
<213> Ratte

<400> 639
gtacaagctt tttttntttt tttttttttt ttttttagga aagcagagat ccactgagtt 60
tatttttcta acggnntctg cagtgacctt agngaagaac ccacagcagc tgggccccag 120
ggncacaagg gatgctgcgc tggacatcaa aaggngacag actgaaatga gcaggactga 180
gctgctgggt tggncntnnc acaccagcgg ncttnacct 219

<210> 640
<211> 255
<212> DNA
<213> Ratte

<400> 640
acagcagntn aggttaaggca gngaagggga gctggcctct ctcacttaaa caatccagga 60
agtccctgac gttgggtgga gccaggttct cagtccatc totacacaag aagagcatca 120
tctccttctc atcctcatca agagactcct ncacctggng aatgacctca gcanacacag 180
tgctcagggc catgttcaga accgcagaag ncaggctctg ggccannctc catccgttca 240
ncagggtctc gggaa 255

<210> 641
<211> 255
<212> DNA
<213> Ratte

<400> 641

acttgagctt	caatcccccc	cagcctagtc	gaggccatga	cgcctggat	ttgcctgtga	60
ctgttcgttc	cctccaccga	ccctttgatg	accgagaggc	acaagaactt	ggtagccccg	120
aggatcgact	gcaggacagc	agtgacctg	atacttgag	tgaggaggaa	gtcagtagcc	180
ggctgtcccc	acccacagc	ccacgagact	tcacccgaat	gcaggacatt	cccgaagaga	240
cagaaagccg	agatg					255

<210> 642
 <211> 255
 <212> DNA
 <213> Ratte

<400> 642						
actaccgagg	agcacaagcc	gccatagttg	tgtatgatat	tacaaatgag	gagtcctttt	60
cgagagcaaa	aaactgggtt	aaagaacttc	aaaggcaagc	aagtcctaata	attgtgatag	120
ctttgtcagg	aaacaaggct	gacttagcaa	ataaaagagc	tgttgacttc	caggaagcac	180
agtcctatgc	agatgacaac	agcttattat	ttatggagac	atcagctaag	acatcaatga	240
atgtaaata	aatat					255

<210> 643
 <211> 255
 <212> DNA
 <213> Ratte

<400> 643						
acgtgctgag	gtggagctgc	accgactttg	acaacattct	tatgactgtc	agctgcttcg	60
aaaagtccga	ggattgggt	aatcagaagc	agttcaagaa	ctttcagatt	gaggtgcaga	120
agggccgcta	cagcctgcat	ggctctgttg	accactttcc	cagcctgaga	gacctcatga	180
accacctcaa	gaagcagatc	ctgcgacagg	acaatataag	ctttgtgctg	aaacgctgct	240
gtcagcctaa	gcctc					255

<210> 644
 <211> 58
 <212> DNA
 <213> Ratte

<400> 644						
tcagtcacca	ccactgaccc	agaacgcagg	cagttcctgc	tacccccctca	aaggggtg	58

<210> 645
 <211> 255
 <212> DNA
 <213> Ratte

<400> 645						
agcttttttt	tttttttttt	tttttttttt	tttggtaggc	taatcaattt	tattaactcg	60
tgctcttgca	agacatttgt	cctgagaaaag	ttcaagacac	actgccatag	tagggagaaa	120
gatcacaggg	aaaatggaga	tgggatttag	gttttgaagg	actgtagcaa	aatgtcaagg	180
tcctcagaga	aagggagttt	gttttgaag	ttaattaaaa	gttgctgctg	ctgtaattgc	240
agaagttgta	cctgc					255

<210> 646
 <211> 255
 <212> DNA
 <213> Ratte

<400> 646						
actgtttgaw	ttcatggact	ctgtttcaga	cttgaagagc	aaagaaatta	aaagagcaac	60
gctcaatgag	ctggktgagt	atggntcgac	tagccgtggk	gctaattgtt	gaatcagcgt	120
attctgatat	tgtaaaaaatg	atcagtgcta	acatcttccg	gacacttctt	ccaagtgata	180
accagactt	tgacccggaa	gaggatgagc	ccacacttga	ggcctcttgg	ctcacatata	240
gctggtgtat	gaatt					255

<210> 647
 <211> 137

<212> DNA
<213> Ratte

<400> 647
acagagacct taaaccagaa aacatcttgt taaacgaaga catgcacatc cagatcacag 60
atTTTTggaac agccaaagna ttatccccag acagcaaaca agctagagcc aattcatttg 120
taggaacagc gcagtat 137

<210> 648
<211> 255
<212> DNA
<213> Ratte

<400> 648
actgctttaa gatgcaacag aagcagggct gatgggagca tctttcttga ggaggcgtgt 60
cttgtccagg ccattctccc tcgggggaatg tgctgggctt cctcgagggg aagatggatc 120
ctcattggac acatcaacta ccaagtgtgc atcactcttc tcaccatcac tgtcatagcg 180
agctgcaatt tccttctctt ctgttttctg cttcttgctc tctgaggaat agtctgtaga 240
gttctgtgtg ttctc 255

<210> 649
<211> 255
<212> DNA
<213> Ratte

<400> 649
actgtggatg tgaatgtggg aagtaatttt aatcatgtgt aattgggtcac aaggctaatac 60
tgcagtaact cttgctgttc tatttaacaa tgccttggtg ctttgtatgc attaacgttt 120
gggtgtaaaag attgtgtgtc catccaacag ggagccacag tatttaaatt gaccaacctg 180
atgttacaac tttgaggtgg ccaaattgtaa actaaaagcc ttaattaaag tgggtgcaatt 240
ttgtataact taagc 255

<210> 650
<211> 255
<212> DNA
<213> Ratte

<400> 650
acaagctttt tttttttgaa aacaactctg gaatctttat tactttcctt taaacagttg 60
ccagggccgg agtcaacgat aaatagaagg cacagtgttg cttgggttttg tcatcagatt 120
tggggtttgt tttctcgtgg gaattttttg tccttttttc ttttttctt ttttttctt 180
ttttttttta caaatacaaa taaaacatga aaaactctac ctcaaaaaaa tctaacagtt 240
caacaaaagt cttta 255

<210> 651
<211> 255
<212> DNA
<213> Ratte

<400> 651
agaaggggagc cttcatgaag ccttggaag cccgttggtt tgtcctggac aagaccaagc 60
accaggtgag tgggtggtaga gggacaaggg aaacagaagg caggcctgtc ttgactctgc 120
gcatctgtct tctcatcctc acccagctgc gttactatga ccaccgagt gacacagaat 180
gcaaggggtgt cattgacctg gcagaggtgg aagctgtggc acctggcaca cccaccatag 240
gtgcccctaa gactg 255

<210> 652
<211> 255
<212> DNA
<213> Ratte

<400> 652
acgcgatggc cagcgatggg tgtcatgtcc ctctttctgc cttgtttatg gtgttacctt 60
ccagccaagg gttgccttaa attgtgccag ggggtgttat accgagtga caggcctgga 120

tgtcgtttgta aaaactcaaa tacagtttgc tgcaaagtgc ccactgtccc cccaagggaac 180
tttgaaaagc cgacatagcg ttattaatca ggaatactgc agtaatgagg attgttgccc 240
cacccccacc ccctt 255

<210> 653
<211> 169
<212> DNA
<213> Ratte

```
<400> 653
tatacttgcc cttgcgcctcc acgcagtccta cagtccttcac attggaaaag tgcaattcct 60
tcagcttggc tgggtggctca aggcctggtga cggcgggggcc actaggttgg gacgggttcgg 120
ctgtcccccgg cccgggcctgt tgcctgctgct gttgctgctg ctgatgttg 169
```

```
<400> 654
actcttcanc anaagcctnt ccaagggccat tttggggact cactctggac actccttttg 60
tgaccttaca ggtccctcac ctgctcagct tttccaggat tcagggctgc tctacatggc 120
ccaagcgttg ccagtgcctt gcagagcccg ggcgccaagg ttgcagagg aagggggcag 180
cagacggcca qaggactctt cacagqccca tgaaggagaa qt 222
```

```
<400> 655
acaaaccaccag cctcaaaagg caaaggatga caaagcccag gaagcctcag tgtttgaatt 60
tggtttcgcga actccccctg tagttgttttc tacgagggct aaaacagcct caagaacatc 120
tgcaaaaaaag catcccaaga aatctgtagc taagatcaac cgggaggsgaa atttcaggcc 180
agaaaacaaagg gatagtagat ttgattccaa agaaaagcctg aagggaagaga aggttgtctc 240
ctttatcccaa acact                                     255
```

```

<400> 656
actatggggg tnnngangcat ttaagggntn canntcttga ntttccaatt gnnccaggttt 60
ncagtatatta tncagattat tancnnttgn taccgnaacn ngattncctn cnaagtttat 120
nategacgnt gtccnngtgg tnnntncnan gcngnnttn ngtnnnctnt ntggnnccgac 180
tactacagga tcggaactnt gntaccncta cctggagtga acannnccat anctctaacc 240
tqtqttqaaa tqcgg                                     255

```

```

<400> 657
accctcagct agagcacang gccctctcgcc ctgcgtcttg aggacaagtt cattgcttcc 60
cagcgctgcc cttcagagct ttccctcgct tgacctgtg tcaggaagcc cgtagctctg 120
cttttcctca ttttagctc aggaagatg tcaggctcaa accactctc aggttaatgg 180
accctgtccg ttgctctgtg caactgctag cagtatttta agggagaaga taaggcaggg 240
agagagtagg aggta                                     255

```

<213> Ratte

<400> 658

```
acttgaaccg gaagcactgc atacccccac gctcatgacc acaccctctc tgactccttt 60
tactccgagt ctgggttttca cctwtcctag cacaccagag ccttgttcct cagcccatcg 120
aaagagtagc agcagcagtg gtgacccctc ctccgacccc ctagggtctc ccacactcct 180
ggctttgtga ggcacccagc cacaccctt gcaggtgcta cccgttgcta tctcctttcc 240
ctgttcaccc agcag 255
```

<210> 659

<211> 255

<212> DNA

<213> Ratte

<400> 659

```
acaaatttag ccacctggcc ccccgaggc ggcagacaat gttcgagctc tcaaagatgt 60
tcttgctctg ccttaactac tggaagctgg agaccctgc tcaattccgg cagcgatccc 120
gggtcgagga tgttgctacc tataagggtca attataccag atggctctgt tactgccacg 180
tgccctcagag ctgcgacagc ctcccccgat atgagaccac ccatgtgttt ggccgaagcc 240
ttctgcggtc cattt 255
```

<210> 660

<211> 255

<212> DNA

<213> Ratte

<400> 660

```
ancnnngncc ngnccgacgn accnctttac agannngnch annantatna nncacantgn 60
tacttactgg ngncnggctn annnnatcag gaaccncang gagcnaang anaanaaggt 120
ntagangcta caaaanntta cagngantgg ancnaaggct aangncaach tggangcctc 180
nanncncttc atgnncntgg acatatcngc tanngacttg ataaacatcg agagcttctt 240
cagtcgagan gtgtc 255
```

<210> 661

<211> 85

<212> DNA

<213> Ratte

<400> 661

```
tctgaatggt gttatatgcc attctagtc tcattctcac agcttggtca acccactctt 60
gagggttttt ttgacatcct gtggg 85
```

<210> 662

<211> 255

<212> DNA

<213> Ratte

<400> 662

```
acttgccgac aaggccgagt gattcggaga tgaaatatgc cctgaagcgc ctaatcactg 60
ggcttggggt gggccgagaa gctgctaggg cctgctacag tctggcgcta gcacagctgt 120
tgcagtcttt tgaagacatc cagttgtgtg acatcctggg acagatacca gaaaaatacc 180
atctacaagc aatgaacaag ggcattggatg aaacctattt tttttgcaaa cctgtttgaa 240
ggcttgggcc ttttt 255
```

<210> 663

<211> 255

<212> DNA

<213> Ratte

<400> 663

```
acttgccgtt ncgcgnntgc aggttgaacc angtgtaggc gaaggcacgc acatgcggca 60
gcagagcctc gatgaatggg tggaaactcat cctgcggaga ggtggggaaa ctgangctca 120
ggctgtccca catagatggg gaaaccaaag cctggataga cctcccactg atggagagga 180
```

gggtcaggaa atgaaagccc tggatagctt actaggactt ccaaggagat gaccggggcc 240
aagctgagga cctta 255

<210> 664
<211> 255
<212> DNA
<213> Ratte

<400> 664
actttcagac tagttgggta tacagctttt cttcttagat aagggttctt ggtttttgtt 60
tggtttctct atatactttt gtgtttttgc attctgcacc attttacaaa ttaaaatgtg 120
ttttctgggt tttttttttt tttacaagct aagaacctag aatagagctg tctgccgcag 180
cctcctaaaa caaaagttaa caattgttaa agccacagta tccttttaat tgctaataat 240
caacctttct tccc 255

<210> 665
<211> 253
<212> DNA
<213> Ratte

<400> 665
acttaaagat tcagggatct gaaagattaa nagannaaac anacctggag tattatcaat 60
agtcttcant ntaaagtatg anttggatga atnaaanaat tgggttcttaa anggtntggn 120
gnatgaaatc tgtgncngta gtaanacant ntcnnatggn tatacttttt ttgnttnatt 180
tctgaggtaa gaatgttnnga gacaaacntn tggggcatta gattctagta ttaaaacaag 240
tccaatgtgn acc 253

<210> 666
<211> 255
<212> DNA
<213> Ratte

<400> 666
acttanagag aacagccgcc ccatgggaga gcagattcag gagcctgagt ctgagcatgg 60
ttctgaacca gactttttac acaatcccca gatgcagatc tcttggttag gccacgccga 120
agttagaaga cttgaatctg gaaggacacg aacaggaatg aactacatga aagtgaagac 180
tggagtaagg catgctgttc ggggtctaat ggaggaagat gctgagccca tctttgaaga 240
tgtgatgatg tcac 255

<210> 667
<211> 255
<212> DNA
<213> Ratte

<400> 667
ttcggcttag cgtgggtcgc gccgaggtac ttctgcaggg ctttgtagtc ctccacagat 60
gtgacatcca acttgtgctt tgtcttttgt ttaggtggtt caaatggaca cgtgagaatt 120
gcaatcttag cattcaacac ttcttttcggc atctgtgggt gactgaagtc cttatcaacg 180
atcacaccct ttataagttt ggtgtcctcc agcgcgccac ctactttgcc ttccactttg 240
atgagttcaa agtca 255

<210> 668
<211> 243
<212> DNA
<213> Ratte

<400> 668
acacacgaac tgcttcttta taaattatga actggagctc ctgatcacgg cggggccggg 60
gaggaccagt cctagggctt tgctctctgg aagaacacct ttaggtaatt tttaaaaact 120
ttagcatcag gctgctgaag tgcttgacag aactcctgaa ttatttctgg agcgacttgc 180
aaggagggca ggtattcttg ctgaagatac tgaacacatt cggggccccc tttgagatga 240
att 243

<210> 669

<211> 255
<212> DNA
<213> Ratte

<400> 669
ttcggccttag cgggggtcgcg gccgaggtac ttcattggga tgttgaaaga tgaatgggct 60
tcgagtgaat gtggcagtta aacataccgg catttttttg acttgcatat ttagctgggt 120
ggaacagagt tgtttccttc ctgaatttca aagataagac tgctgcagtc gcatcacaat 180
attcagtggg gaaatcctga ttgttactgt cattcccatt cttttcgttt agaatcagaa 240
taaagttgta tttca 255

<210> 670
<211> 255
<212> DNA
<213> Ratte

<400> 670
actttgagat cttcgtcaaa gagcagagcg aggtgggcag catgggagcc cttctcttct 60
gagcctcgtg tgccgtgtga ccaggggtgag ggcacaggct ccagaactgc cccggaaggg 120
tgctcttact gctggagcat gctactgtgg catagggaact ttaatttttt ttttttaatt 180
tcatactctt tcattccact gtgtaaagtg ctaggaaatt tccaatttga agttttgctt 240
tttctgacat tggca 255

<210> 671
<211> 127
<212> DNA
<213> Ratte

<400> 671
actctatgcc tttgangtcn ntactnacia gaggnccaca ccccgantgc naggaacagt 60
tcctgnggnc cgngatggac attcancttg tnnctganc aagatcatat nccncaaaaa 120
ngtacct 127

<210> 672
<211> 255
<212> DNA
<213> Ratte

<400> 672
acttggttga caaggctcat caagaagcgg cctactgtgt tgtcagcaga cactttccca 60
gacagcacat cctcagcata ctgcaataca gtgcttagag catcctggat cggggctgag 120
gcccctccca cttgctgtaa gtcacttgag agtccaatca cccgggtggg gctaaaacat 180
gtcttcatga tgaggtcaac tccaatgcgc tcagtgtcat aatcgcata cttcactgtg 240
agaggggtga acatc 255

<210> 673
<211> 255
<212> DNA
<213> Ratte

<400> 673
tgagcaccct gaagggtgaag ggtctagttt tgggcccatt tcacaagaac cagaaggatg 60
aagtcaatga aaccgacttg aaacagattg atcccgattt angctcccag gaagatttta 120
aagaccttct acaaagngcc aagaaaaaga gcattcacat cattttggac ctcactccca 180
actataaggg ccagaatgca tggttcctoc ctcctcaggc tgacattgta gccaccaaaa 240
tgaaggaggc tctga 255

<210> 674
<211> 255
<212> DNA
<213> Ratte

<400> 674
actgggataa agaagttctg cgagccaaga aggacagctc ggaagccttc cttaacgaag 60

gcaatcgtga agtgttactg gaaatcttac ctgatttttg gaattttttac gttaattgag 120
gagaccaccc gagtagttca gcccatatatt ttagggaataa ttattgatta ttttgagaag 180
tatgactctg acgactcggc cgctttgcac acagcttacg gctacgcggc ggtgctgtcg 240
ctgtgcacgc tcata 255

<210> 675
<211> 124
<212> DNA
<213> Ratte

<400> 675
tcattgccat atacagaagc acagtcaatg tggcggttag ctacgctaag ggcatattta 60
atagctactt tcacctgacc aggtctcactc ttccatgtcc ccagaccaat cagaggcatc 120
ttct 124

<210> 676
<211> 255
<212> DNA
<213> Ratte

<400> 676
acttgccag aatgtcggga ccaccacga tctgctggac atttgtctga agagggccac 60
agtccagggg gctcagcatg tgttccagca cgttgtgcct caggaaggca agccagtcac 120
caaccagaag agctctggac gatgctggat cttttcttgt ttgaatgta tgagacttcc 180
attcatgaaa aaatttaaca ttgaagaatt tgagtttagt cagtcttacc tgtttttttg 240
ggacaagggtc gaacg 255

<210> 677
<211> 255
<212> DNA
<213> Ratte

<400> 677
acatggctgg aattgatggg gagaagggaac acgctaattg cctgaagatc ctgctggaga 60
tggggcgagtt cttccagatc caggacgact accttgatct ctttggagac cccagtgtga 120
ccggaaaagg cggcactgac atccaggaca acaaatgcag ctggctgggt gttcaagtgt 180
ctgctacgag ccactcctca gcaagcgcca gatcttagag gagaattatg ggcagaaagg 240
accacacaaa agtgn 255

<210> 678
<211> 255
<212> DNA
<213> Ratte

<400> 678
acttcatata tttaaacttg gaatgaggcc aaagcaagaa aaacacaaaag aacacaggct 60
gttaattaaa aaaaaaatca agaattgctaa ctagtgnaaa tattatcaca tgaaaaccaa 120
ccccggatta acaaaaacaac cttatgatta gacacttaag acctcgattt tttgcttaac 180
tagaaattta caccaccana agttcctgat taaaatacag aaatctataa agctggcgca 240
ggacgtaaac ttgat 255

<210> 679
<211> 127
<212> DNA
<213> Ratte

<400> 679
acaatcagag ttcgtagaag taatgaacga aatctgggcc aacgacaaa tcaggagcgc 60
cgtccttatt tgcgtcaaagc ctggctgctt tgttgacagg gctgacatca acatgctggc 120
ctcttgt 127

<210> 680
<211> 205
<212> DNA

<213> Ratte

<400> 680

```
acaaagtggg ggaacttttc ttctatctca cgatggggatt ttctccagcc ttgggtgggga 60
catcaatgaa taacactgac ggacttcaag agcttgccctg tggggggcctg atctactgcc 120
tgggagtcgt gttcctcaag agcgaatgga tcattccatt cgcccatgcc atctggcacc 180
tggtcgtggc cacagccgnc gccgt 205
```

<210> 681

<211> 255

<212> DNA

<213> Ratte

<400> 681

```
tttttttttt tttttttttt tttttttttt taaaaagaaa tttttgcctt tattagaatg 60
gcattaggcc ttaaataatgc caattttggg aatcacatta ttgttttaat aagaaacgac 120
tctacagaat tgcaataactg gtccaacagt cttgtctttc ttttaaagca agaaacagaa 180
tgtaagtaac cagaaagcag ggcaggcatc agctaaccga ggagactagc ttcttagatc 240
caagcgtttg cagag 255
```

<210> 682

<211> 166

<212> DNA

<213> Ratte

<400> 682

```
acctctttcc agatggngtg ctcttgatgg tggatgagat cttggagcct notttctggt 60
cccacagact tttcttgctc atgtctccag ctactatate ctggcangag ggngncttgg 120
aagcatactg antntgcacc tatnctgtct cccanagagt cttggn 166
```

<210> 683

<211> 255

<212> DNA

<213> Ratte

<400> 683

```
actggttaca cactctcttt atagactccc ttntgctgga aaatttccac atgcttttga 60
gagattcccc aaaggggtgac gctattttatc tttagtaagc tatttatctt tgtttttgaa 120
atatcaaacc ctggaggtcc ttttttcagt atgacttttt ttatttttggt ttttttttat 180
tttggttttt aggttacttt gtcagaagca taacagggtg taagttgatt cataataaat 240
acctgtccat cttca 255
```

<210> 684

<211> 255

<212> DNA

<213> Ratte

<400> 684

```
acatcttttag ttttacaatg cagattaaca gaatacagga attccagcat caaccaagtt 60
ttttttttaca tctttcttgc agttacagat actattttaac aagattccaa tttctaagaa 120
aaacttagtc acaatgctat ttgatcttcc tctaggtctc aaggctgaaa atgttctcaa 180
ttcgctttta acaataacaa ggctcttatt ctgaaatata gcaataaccag cctataccca 240
acagtgatcc tacaa 255
```

<210> 685

<211> 255

<212> DNA

<213> Ratte

<400> 685

```
acgaatttgg tcccagatgg tgaccatcca tgcatacata gcagccactg tgaggtgtgc 60
tggtggcctga ggccctggctc ttctgacttt ggggactgcc acatctgggc tttctcctct 120
atgattnttt ggggttgnnt ttgtagcngn tcatttgggt caagtttaca ctaccgagat 180
```

gattatTTTT tgacaaaaca gggtagcacn agagcaggag atggttgngg cgggacagtc 240
cggctctgag nggga 255

<210> 686
<211> 255
<212> DNA
<213> Ratte

<400> 686
acaagctttt nttntttttt tttttttttt tttccaggtt ttaaaacttt atttgcatat 60
taaaaaaatt gggcattcca ataattaaaa tcgnttgaac aaaaaaaaat ggnactntga 120
ttaaacngca ttttatatcc tgcaagacat ntttatTTTA ctctnaattc caccatntcc 180
caccagntt tttccttnac caacatgcaa gttcttttcc ctntctgcca nccaggccag 240
naggtgggag gcana 255

<210> 687
<211> 255
<212> DNA
<213> Ratte

<400> 687
acaattttga ttttccacat tgtggccttt taaacaccta aaatatTTAA taaaaagaga 60
atttctccat ctctgtgtcc tctatcagtg tgcacagtct cgagtaatga cccaacataa 120
aaattaagcc aaatgtaaag ccagccacac tgtcctcaga acagtggTTA tcccccttcc 180
ttagtgcttg acatcttctt agtggtttgtg agaaaatagg tttaaatctg aatattcaca 240
gtgaaaagct gaaat 255

<210> 688
<211> 255
<212> DNA
<213> Ratte

<400> 688
acgtcttctt ttggtccttt aaagaaatgg ctgcatcgat cttctggacg gtttcagggg 60
ggcccagagt gtgaatgctt ttaggataac ctgctagctc ttcatgacct cggatagccc 120
agatctgatt tcttttaaga atgaaaacag tgtctctgtt agtaacttca tatgcagcat 180
ccatgttTGA tggaagagac ggccaaaatg aagagatcaa ataaaagcca ggctcagggg 240
tcttgagaga ttttc 255

<210> 689
<211> 241
<212> DNA
<213> Ratte

<400> 689
actaatctct tcagcatgtg ccatncccca gctgtctcca cacaccctcc ttctccctag 60
ctctaagctc atcagttctg agttcacctg agtcctttta tttcaaatgc agtccaggtg 120
agatggcaaa tcaagtttgt cagaacaaat ttaccaccac cttcccaagg gaatttcata 180
actcagaata ctcacaggaa cctagacatg catgnttaaa tattatttaa tgaccgactg 240
t 241

<210> 690
<211> 255
<212> DNA
<213> Ratte

<400> 690
cggactaagt agctggcgaa gcanctacat gcaentgacc agnacncttc taagtgccan 60
ganctgtctc ccaaataagt gaaggagatg naacagttcg tgaanaanta tgatanCGNA 120
gctntgngcg tntgcnacgn gaaccttgcn ttcgagatga atgcttaagg tgacaaggag 180
cncaacctg cgggagacan aaacncccca gcnacngtgg gtncaagga caantctgna 240
naagccaaga anacc 255

<210> 691

<211> 252
<212> DNA
<213> Ratte

<400> 691
acaagtttaa ggcatacaaaa tgactaatta tagacgataa taacagtctg gatccctagga 60
ggcaactgga ggcgtttttaa ttggaaataa gcatttgaga taatgttaac agcagtgcag 120
aaaaatgaag ttaaaaaacaa aatcagtgtt aagaagcctt ccgtcctgca ccttgctttt 180
aatcatctcc tccacagaga atgagcagaa ccttcctgta gtctccagaa gtgtcgccct 240
tgataaaaga gt 252

<210> 692
<211> 242
<212> DNA
<213> Ratte

<400> 692
accagcgctt agggggtaga ctatgaggag cgagtgtctg cgtccattgn taatgagggt 60
ctcaagagng tgggtggccaa gttcaacgcc tcgcagctca ttaccagcg ggctcagggt 120
nctctgttga tccgaagaga gctgacagag cgtgccaaagg acttcagcct catactggac 180
gagttagcta tcacagagct aagcttcanc cgagagtacc tgcccggncn ggccgctcga 240
aa 242

<210> 693
<211> 255
<212> DNA
<213> Ratte

<400> 693
cggcgatatt tgcgcaagtt tgtgttgatg cggggccaata tccaggctgt gtccctcaag 60
atacaaaactc taaaatccaa caactcaatg gcacaagcca tgaagggtgt tactaaggcc 120
atgggcacca tgaacagaca gctgaaatta cccagatcc agaagatcat gatggagttt 180
gaacggcagg cagagatcat ggacatgaag gaagaaatga tgaatgatgc cattgatgat 240
gcaatgggtg atgag 255

<210> 694
<211> 255
<212> DNA
<213> Ratte

<400> 694
accttacaga tgacgagact tctgctcagg ttcccttgac tgaaggcat aagtttgacc 60
gggatgtgga actcctgatt tactaccgtg aagtgcacag cccagtgta gctgtggaga 120
agggaatgca ggacaagaag cgagatagtt tgatgggagc tccttgatgca atggtagact 180
tctaccaga catcccagaa gtgaacgact caaaggctctg tggagaattt gtgtttctaa 240
tgaccgctc aggaa 255

<210> 695
<211> 183
<212> DNA
<213> Ratte

<400> 695
ttcggctttc gagcggccgc ccgggcaggt acacctcgtt ggtgtgaagg aaaagagaga 60
tcctgtccgg cgggtaaacc aggagcagta ggcgctgcag gaaccgaggt aggaaggag 120
tgggctgctc caciaaacag ggcagaagca cccggggggg aggctgaccc cccgggagag 180
gcc 183

<210> 696
<211> 183
<212> DNA
<213> Ratte

<400> 696

accatgttgc atgtggcttc ctctggatat atctaagccc ttctgcacat ctacacttan 60
atggagntgg tcaaagggaa catctgggtt atgccttttt tacagtagct ttaggaaccg 120
tcggcatgtt gctgttgaag tgtggagttg tgagccgtgg actgtggaca gtcnacagcg 180
ngt 183

<210> 697
<211> 255
<212> DNA
<213> Ratte

<400> 697
acaaaccgta gaacttcact cagcagagag ataaaggcgt aacacaaccg cccacccaag 60
gtaatggtgg acagcaaggc tggaatcctc atcctgcaag caagaagagg gggactgcaa 120
agtggagttt gtgggtaacc ttantctctc cttgctactg aattcataaa gnaagaggcc 180
tttacaataa acccacaccc ttttaattttc tactacataa taggattata aggccacaga 240
attccttttg ggaaa 255

<210> 698
<211> 245
<212> DNA
<213> Ratte

<400> 698
tacttncaga caaaccata cttcacaaac atggtgatcg tcaaggagtt ccagcgcaac 60
cgctcaggtc ggttggtgtc tcattctacc ccaatacgtt ggcatcgggg acaggaaacc 120
caggtctgca atcgacaggc ccacgacacc agagaaagct tcttcaactg gttttccaac 180
cacagcctnc cagaagctga cagaattgct gagattatca agaatgacct gtgggttaac 240
ccagt 245

<210> 699
<211> 166
<212> DNA
<213> Ratte

<400> 699
acagcgcccc gcagagacgg cgctgaacc gaggcctgcg gaggaagcag cactcactgc 60
tcaagcgctt gaggaaggcc aagaaggagg cgccacccat ggagaagccg gaggtcgtga 120
agaccacact tagggacatg atcattctgc ccgagatggt cggcag 166

<210> 700
<211> 194
<212> DNA
<213> Ratte

<400> 700
aaaaaaaaaa aaaaaaaaaa aaaaaaagct tgtacacggc caggtgtcct tcctcgatct 60
tgtggatgga ggcntaaag gaggatccgc caccaacccc accactgnan ccaccaaaaag 120
ccgggcttga gtcatttca tccttgntcc tccggtcagt gacgcacgcg ccccgcccgc 180
acgtgcaagn ccgc 194

<210> 701
<211> 239
<212> DNA
<213> Ratte

<400> 701
acggccgcgcaa atacatccag acagacagcg gccctactg tgttccttgc tacgacaaca 60
ccttcgccaa cacctgtgcc gaggatccgc agctcatcgg ccgcgattca agggaactgt 120
tttatgagga tcgccacttc cagcagggtt gcttcgcgtg ctgccgctgc cagcgctccc 180
tcgccgatga gcccttcacc tgtcaggaca gtgagcttct ctgtaatgag tgctactgt 239

<210> 702
<211> 255

<212> DNA
<213> Ratte

<400> 702
ttcggctttc gagcggccgc ccgggcaggt acgcttccat tatgccatca ttgggttttt 60
gaaaatgagt gacaccctag ccgtttatat ctttgaagaa aaccacgtgg ttcaagagaa 120
gatctggtct gtgctcgagt cccaagggg tgtttggatg caagcagaag tcagctttta 180
gaagcccatg cccacgaagg tggcttttat gaggctatgc aaaagctttt gggactgtgg 240
actggtagcc ctgga 255

<210> 703
<211> 255
<212> DNA
<213> Ratte

<400> 703
aggtagacag ccaggcagga ctctgagcct ctggaattag ggaggctcctg gtgcagaatc 60
tgaacaggca gacagacag cagggcagaa gcggcctttg aagaatgatg agctgtgacc 120
ccgcgcctcc gctccacttg cctccagccc cttctcctac cacctctatt tattatacat 180
cagggttgga gtgggggttg tgtccttagg ggctcaagtt ccttctctca gctgggacag 240
gagatggctg ctcaa 255

<210> 704
<211> 255
<212> DNA
<213> Ratte

<400> 704
agaggctcag aatcgatcct ataaatgaaa gatcctttat atgcaattat aaagaacact 60
ggtttacagt tagaaaatta ggaaaacagt ggtttaactt gaattctttg ttgactggtc 120
cagagctaatt atcagatata tacctcgac tgttcttggc tcagttacag caagaaggtt 180
attctatatt tgttgtaag ggtgatctgc cagattgtga agctgaccaa cttttacaga 240
tgatcaaggc ccaac 255

<210> 705
<211> 255
<212> DNA
<213> Ratte

<400> 705
taggatgcag aaacggtagg tcgggagaa actggaggct cctcgccaaa tatcacaatc 60
atgatctgaa taagttccag caactctgac cgtgggtgtt tccagtcagt taggtaaggc 120
aggtagattt tccatttgc atccacatgc tttcctgttt taatagtcag tgaactagta 180
ggcttaacaa aacagatagg ggggttatat ggggtatgtg ccaggagcca caggcatatt 240
ggaatgttat atata 255

<210> 706
<211> 255
<212> DNA
<213> Ratte

<400> 706
acacacacag agggagacag agactcagga aggatggggc tcgggcacac ttgctgctgg 60
tgtccactcc tccccttgcc tgctgtctgt ttcccacagg agatcttggg tctagcgtga 120
ataaagcagg gtggacctgc ccctccctn ccgacttcct tccacactgg gttggaaaagg 180
gctatcatgc ccaagtcgga cggaccaagg tggcagatgg gttagggctg aagagtgggt 240
gcacaaatgc tcaca 255

<210> 707
<211> 255
<212> DNA
<213> Ratte

<400> 707

<213> Ratte

<400> 713

```
acaagaggct aggccacttg tgccgacagc cgttcocgtgc atgcttcctgc ctttgctgaa 60
cctttctggg tcaccataaa agagctcaag gcaaaactgt cacagggaaa gaagggtgatt 120
tggaagaa gctttgtgct tgggttatctc tttaaaccac cacttggaac aaatgggagc 180
ctgtggcctg ggtcctaatac ctggcttaca aacctttgaa gttccagtca ccattgagct 240
tgactgtgac aatat                                     255
```

<210> 714

<211> 255

<212> DNA

<213> Ratte

<400> 714

```
ttcggcttag cgtggctgcg gccgaggtac gagaccccca gacctctata ctgcagacca 60
aataccgtgc aagggctgtg acctgcaaaa gtgcggcaga gaaggaggcc gaggaacttg 120
agaaactgca acaatacaaa ttcaaagcac ggggaacttga tcccagaatt tttgaaagtg 180
gccccatctt gcccaagaga ccacctgtta agcctcctac ccagcctgtt gggttttgatt 240
tggaattga gaaac                                     255
```

<210> 715

<211> 255

<212> DNA

<213> Ratte

<400> 715

```
acaagctttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 60
tttttttaaa gggtcaaaaa aatatttatt tataaaaaaa acaatggaaa aaatttatgc 120
tgaaaaatgc agcaataaat acagttaaag ggaacagggc ctttacagta aaacattggc 180
acaaatgaaa tttgaaggca cncacccan acctacatgt ctggggccat ttttgtaaac 240
ccccctttaa agcnc                                     255
```

<210> 716

<211> 255

<212> DNA

<213> Ratte

<400> 716

```
actgcatgct gatgnccacc gggggncacc ggacactcct tgnaggagct aggcctcctca 60
gatcagtgcc agaggctgct cagagaggta agagcagggc agcaagcttc ctacggcatc 120
cacgatggct tccaggtgct catcttctgc ctgaggccca cagagctgca tgaagtctgg 180
caaacgcaac aaggattcaa ggtgtggcc agagaagcct cggcaagcaa ggatctgtgt 240
ggcaatgacc tcttc                                     255
```

<210> 717

<211> 255

<212> DNA

<213> Ratte

<400> 717

```
accagagact tgntctgtat ctgtgggttc taacctgnt tcccctactc ctgagccatc 60
tgcaagcaaa cttatggttt caactcactc tgaacagggtg tcatctcatg agatgccact 120
tccagttaga ctccccctc ctacattgca gtctatggct cctgctgggc ccaccccttc 180
tacagtggcc acgccattgc ctttccctcc gagcttacct cctctgcttc ctcttctctg 240
aagtggtcct ggtgt                                     255
```

<210> 718

<211> 255

<212> DNA

<213> Ratte

<400> 718

```
ggcttgctg gctagttcat gtgggagagt ccttgctatgc cttgggtattg tgcaggcgta 60
```

caggaatcac agacagccag gccagctcc tctggttctt acagactttt ctgtttggtg 120
tagcctctct ctccatcctg tttgcttaca gaccaaagca ccaaaaaacat aattaaagga 180
gaaagcggggg tttcctttcc acttcttcaa gcctctcttc agtgggtcct ggtttccagg 240
atgatctctc tgtct 255

<210> 719
<211> 197
<212> DNA
<213> Ratte

<400> 719
acatggcaaa acctcaactg gggaaacacc tcatacggtc agtctgtaga caaggctgtg 60
gggaattgtc ttaatgactg agagaagaac tcagtctgat gtgggtggca ctacctctag 120
ataggctgaa aacaggctga gtgagacagt cagcaacact ggttttgctt cagttccttc 180
tctggttctt gccttaa 197

<210> 720
<211> 255
<212> DNA
<213> Ratte

<400> 720
acagctacccc tgcagacacc tcctggcctg cggcggagca aggttcatca agaccgacct 60
ctcctgagaa gtttacagtg cctcacgtct gtgccaggtt tggtcctggt gggcagctcc 120
tcaaagngat acccaacctg ccttcagaag gacagcccg c attgggtgga gatccacagc 180
cttagagacc ttgctgcaag cacacacctg agcaggaaga aatgcgctcc tttccaggac 240
ctctcggcaa agatg 255

<210> 721
<211> 255
<212> DNA
<213> Ratte

<400> 721
acaagctttt tttttttttt ttttcttttt tttctacggc agggctgctg gctcggttac 60
atgctcatgt gttccgggag aacataggaa atgtcgtccc aggggtgacg atacagccct 120
tgcttcagcc tcttctggtc aagatagtgc ccgatgaagc ccatactcct tcccagcaca 180
aagacgccat tgagggtccc aatgtcaaca taccgccag cttcctcccg ggtgaaggag 240
ccacagttcc taagc 255

<210> 722
<211> 255
<212> DNA
<213> Ratte

<400> 722
ttcggcttag cgtggctcgg gccgaggtac cctgtattta tatattagaa aagtagaatc 60
caccaaatga caagatggaa cagaaacaga gtaaaaaatat atcagctggg ttatttttag 120
aggtatatgt taactaaaca cttttcaaac taaagctcat tctttaagga ccctctggag 180
accatatgaa tgtttggtga tgggtgtgta tataattact tatatcctga attctactta 240
attttggctc tctta 255

<210> 723
<211> 81
<212> DNA
<213> Ratte

<400> 723
cgcatataaa cgcagacttg aaccacatt tgcccaaato cacatttatt cgaacctaac 60
agccgaatta cagcttgagg t 81

<210> 724
<211> 149

<212> DNA

<213> Ratte

<400> 724

```
nncaaatcan acccacagca gactacctag gttacctgga aagaactaag tttctatagt 60
aataaccaat aagaaatgaa gaccaaccac ccatctataa aacctcacct tatcctttga 120
atccaaatct gacagcatgg aagatcaga                                     149
```

<210> 725

<211> 255

<212> DNA

<213> Ratte

<400> 725

```
acgctgatgg agattccatg caccataaag cagttcagcg cggagaaaaca gtctcccagg 60
gaccgaatcg acaaagaaga aatgggaaac ggaaagaaaa ctggggcatt tccttttcct 120
cggtgtttta atctggacaa aagcctaact cctggcatca ggatgctact gtgactcaag 180
agagaagcta gaactgcact agtcacgaag gtcaagttca acctctagga ggatggagaa 240
cactcttcct gtggc                                         255
```

<210> 726

<211> 255

<212> DNA

<213> Ratte

<400> 726

```
ggataacagc ttctttctact tgaggacacc tgcaaccaag aggatctctg gcatccaaaa 60
cttctaacac aatgtctgag gcttcaatca cctttttaag ttcttgacaa tgtaacttct 120
ttggattctg tttgcctgat ttagctttct ttattttggg ctcatcagat tcctcctgag 180
tttccacatt agattgctca tcatcagggc taatttcaag ntttcttttt cgttcttggt 240
ctttttgcct gtcaa                                         255
```

<210> 727

<211> 255

<212> DNA

<213> Ratte

<400> 727

```
atccagtgcc catggatgcg ggttttttggg tttgttcagg ctgtgagaag ttacacgctg 60
gtcagctgac ttttcttttc tgagagaatc acctctcaaa tgctttcctg tgctccctga 120
gggcctcctg gctggttgca ggtttctggt ttactgggtg tctgggctgg ctggtgtcct 180
gttatcactt gatagaaaaga atagaaaatg tttctactct taccctgcta gcgttgagta 240
gtgttaaata ctata                                         255
```

<210> 728

<211> 255

<212> DNA

<213> Ratte

<400> 728

```
atccgcctaa ccggggcccc gcccaaggaa aagaaccgga aaccgggaaa atcctgcaac 60
aaagccaaca acaaaaaaagg aagggaagggg ccgggcagtg ccaagactga tggctgtcag 120
ggcaagtgca attctagact gagcatggtt ttctggaaca gatgatcttg gatgatcagg 180
aatccgagga cctggaccgt ccatcattga gccaccagtt tgctggagca cagacatggg 240
tgttctagca cttcc                                         255
```

<210> 729

<211> 255

<212> DNA

<213> Ratte

<400> 729

```
acctcagaga acccaggcca gggcagatca ctgagtgcac cttcctgcct aggcagggct 60
gctctcggac ctagtcagct tatctgatgt cagggttggtg ccatagcctt tgtgaacttc 120
```

ttgaccccag	agctatattgc	tgaggtttgt	atgagaagtg	tgtggacaac	aacctcaggt	180
ttatcagatg	tatttagtag	tagggcaaga	ggatctcatc	togatttctg	ntcccccttt	240
cttagttcca	tacat					255

<210> 730
 <211> 255
 <212> DNA
 <213> Ratte

<400> 730						
ttcggctttc	gagcggccgc	ccgggcaggt	actccttaga	gccagttgct	gcagaactca	60
aatctctgct	gggcaaggat	gttctgttct	tgaaggattg	tgtgggctca	gaagtagaga	120
atgcctgtgc	caacccagcg	gctgggactg	tcatcctcct	ggagaacccc	ccccctcaag	180
gaaaagaaaa	aaggaaggga	aaagatgctt	ctgggaacaa	ggttaaagct	gagccagcta	240
aaattgatgc	tttcc					255

<210> 731
 <211> 255
 <212> DNA
 <213> Ratte

<400> 731						
accttgccca	tcnacntcca	ggaancngtg	ggggaagaac	gagagggnc	acaccaaccc	60
ngganccctn	cggaaagcaca	ctcancagnc	aggncctnc	ganacnggag	ngggcnnnag	120
acccaacaan	aaganggnng	annnggnggn	caaacngcct	ngggnnnnng	gaggaaanga	180
agcngnncca	annngaggnc	acaagggngc	ggaaagnnc	ngncnngang	naaaannagn	240
gncctgnca	aannn					255

<210> 732
 <211> 255
 <212> DNA
 <213> Ratte

<400> 732						
ttcggcttag	cgtggctcgc	gccgaggtac	atttataaaa	gaacgtcttg	tcctttttaca	60
aaaatctctc	atttaattta	aatacagttc	atattttacag	attaaacatg	aaatatctat	120
ggtcaccaag	catattgcac	atcacagaga	gagagagaaa	cattttgtgca	tcctcagtaag	180
tttgcccaga	gtgtccaact	ctagactttt	tattttgtag	aaacacattt	actttttgtg	240
cgtgtaataa	ataaa					255

<210> 733
 <211> 255
 <212> DNA
 <213> Ratte

<400> 733						
acaagcaagg	acgtccacga	gtatccagcc	tcttaacagg	actcttcccc	agccccagtg	60
ggcagaacag	atctgaacag	gaaacttatg	ccagctgctc	caagtcctca	ggtagaagga	120
agaaggactg	tatctggact	ggactgagac	acaagtggaa	gagccccgac	tatctccag	180
agactatgaa	cctggagaac	gtgaagctgt	tgtggcccat	gggacacctg	taggagcaga	240
aatgtgactt	tggat					255

<210> 734
 <211> 255
 <212> DNA
 <213> Ratte

<400> 734						
gagttttctt	atgcttgggt	aaaactgcgt	tataaattta	acaatacaaa	aatggcttag	60
aaacgagagg	aggaatgata	aagtataacc	tgncagctt	gcacacagac	tggaagcaa	120
atgacacaat	gaggacaatc	agcgaggggc	acatgaacct	caggaagaat	cgtggaccac	180
aggaccttct	ccatggcttt	actctggntc	ataggnaatc	agaagacctt	gccttgatag	240
atctcatggg	tctgg					255

<210> 735
<211> 255
<212> DNA
<213> Ratte

<400> 735
ttacaagaac agcaaacctg actctttact gagaatggag gaggagcaga ggttggagaa 60
gtcacccttg gctgggaaca aggacaagtt ttccctttct ttctctaaca gaaaactcct 120
gggctccaag cccctcaggc cggcgagcag cctggcgtg ttcgggacct tgcagagctt 180
caaggaggac aaggccaagc ccgttcgaga tgagtatgaa tacgtatcga acgacgggga 240
agctgaaaat tgacg 255

<210> 736
<211> 255
<212> DNA
<213> Ratte

<400> 736
atcgaagtgc ccagtagggg gatgagggca ctccctgtg ctggggcacc ggcgggcttt 60
aaaccacagc atctactgat cctgctcctc agcaaggctc tggcttcttt cctgagtatt 120
tgggtctaag tagtagtggc cggtttggtta aacatacagg cttttaattt ctgtggacag 180
aagtttggga atcgttgggc ttgaagccca aggcccccta aacgtggccg ggtaacaat 240
acctttaact aactg 255

<210> 737
<211> 255
<212> DNA
<213> Ratte

<400> 737
atccgcctaa ccgggggcccc gcccaaggaa caagcaacct ccaagcaaaa aacgcaacaa 60
agggcccaag aaaaagtccg gaaaagaagg ccgaacctca aaaaaccca agaaaaggcc 120
ccgccccaaac atagaacggc caacaaaatg acaaacgccc aggctgcata gatacctcca 180
tattgtctgtg caggcttcca tgcgccaaaa gcaaggccag tggcagtgcac tgccaagagt 240
aaaccaagta agaag 255

<210> 738
<211> 255
<212> DNA
<213> Ratte

<400> 738
cagggctgct cctatgggtc ttcaagggga agcagcacaa cccagtgtga gtcgaatgag 60
tttaaacacg agaacttctg ctgccaactc tgccctgctg gcaactcacct cattaatcca 120
tgccacagga accgngngtg agagtgaatg tgccccatgt caagctcaac acttcataga 180
tgtgaacaac agggaaacctg gctgctctcg cttgctctaa gagccccgga ttgaccaaga 240
aagaaagtgt tcgaa 255

<210> 739
<211> 227
<212> DNA
<213> Ratte

<400> 739
acaagctttt tttttttttt tttttttttt tttttttcgg agctgaggac cgaacccagg 60
gccttgcgct tgctaggcaa gcgctttacc actgagctaa atccccaacg agatctacgg 120
ttttaaaact cctcttgctg agctgcccag taggggataa ttggcacagc ttttccaaag 180
aacctaattc aaaccaggca tgggcccagca cccctggtaa tcctagt 227

<210> 740
<211> 255
<212> DNA
<213> Ratte

<400> 740
 actgaacctg tgtcccagcg ttacacttca tggctctgcac tcagagctca ctcagctagt 60
 gctgaagtca ccgtccatgg ttgaaggggtg acaagctaca catagaggca gagcccactt 120
 gttagctgag ccacaattgc acagtctgtgg agaccattgg tgtctgaggt tgctgagtc 180
 atggcttccc acactgcagt atttccaata cctagtggagg gccgtcttgt cagccaagtt 240
 ttaaaacaaa tacct 255

<210> 741
 <211> 255
 <212> DNA
 <213> Ratte

<400> 741
 acctgacagg cacatacgtg caggaggagt ctccggaagg tggcagggtc aagaaggaga 60
 ttgtttgttga tggacagagt tatctgctgc tgattagggg tgaaggggggt ccccggagg 120
 cacagtttgc catgtgggtg gacgcgggtca tctttgtctt cagcttggag gatgagatca 180
 gtttccagac cgtctaccat tactacagcc gaatggccaa ctacaggaac accagtgaga 240
 tcccattagt gctgg 255

<210> 742
 <211> 255
 <212> DNA
 <213> Ratte

<400> 742
 ggggtggggct caaaagggtga aaaaaatata aaacaagtat taaacagcat tattaataag 60
 tttgccagac tcttgggtcat gaataacttt gtgggttcgca ttgaatcctg aactgaacat 120
 tgttgactac ctatgtacct ccaagtaaac tgagaactac ctagcaaac ctgaacttca 180
 gtccgggtggg ccgagctggg tcttctcttt tgtagttttg cagtataagg tgggtgatata 240
 tctgttttgc aaaac 255

<210> 743
 <211> 218
 <212> DNA
 <213> Ratte

<400> 743
 ttccggcttag cgtgggtcgg gccgaggtag tcttgggtggc gctcttcccg aagcttcttc 60
 tgctcttctg taagccgctg ctttatctct tcaatggctg ccttcttgcg ctccaccttc 120
 cgcttggtga agcctgtcag gtattccgcg cgcttctctt catcaaagt gaggatgagc 180
 cggggacgcc ggtcatctcc atctcttttt ttcttctt 218

<210> 744
 <211> 175
 <212> DNA
 <213> Ratte

<400> 744
 tggaaacttc tacatcctgg ctgaagataa aatatcacct gttgcttctg ccttggaaac 60
 aacatttgat gttactgcaa cgttttcagg tgtggatctg gaaggtggca cttgtagtca 120
 ccttttaatt ccgataaag tgtctctctt ttacctgcc actcacgtga ctatg 175

<210> 745
 <211> 255
 <212> DNA
 <213> Ratte

<400> 745
 cagatggggc aaccttgggg cctctcagct ggaagggcgt tggatggaca ccaggcagtc 60
 cctgcccga gaagtttgcc tggcttctgg cccagctcc taggcctgcc cagcaatcat 120
 ggaatcagcc cttgttccca accagtgcag tgggcatctt caggcagaac tcaagaagct 180
 agcagagggg ccataccacc tctacaaggc ccaagggggc ttgtgggtaa gacagcaaga 240
 aaaaaaacta tagtc 255

<210> 746
<211> 255
<212> DNA
<213> Ratte

<400> 746
atcgaagtgc ccagtagggg gatgagggca ctccccctgtg ctgggggcacc gccggggcttt 60
agaccacagc atctcactga tccctgctcc ctccagcaagg ctctggcttc tttcctgagt 120
atttggttct agtagtagtg gcggntgntt agacatacag tctttatttc tgtgacagag 180
tttgtgatcg tgggctgagc ccaggccctc acgtgccgct cacatactct actactgggc 240
tccactccag ccttc 255

<210> 747
<211> 255
<212> DNA
<213> Ratte

<400> 747
acaagctttt tttttttttt tttttttttt ttttttaatc aaaagacaan tttatttgga 60
cagaaacctt cagacagaac atagaggaat taggcattat taaaatacac tcttgccaag 120
ggattnaaca ttagaatatg ggggggggat gggaacaca ggacaactca nccactgcag 180
gggaagcgag cagaccctgg agacagccac acgtaggcaa agggtagctt tccccacaa 240
acttctacct ccacc 255

<210> 748
<211> 255
<212> DNA
<213> Ratte

<400> 748
ccctgggtggt ggtatcttac tttcttatta ccggaggaat aatctatgat gttatcgttg 60
aacctccaag tggtggctca atgacggatg aacatgggca tcagagacca gtagctttct 120
tggcttacag agtaaacgga cagtatatta tgggaaggact tgcgtctagc tttctcttca 180
caatgggagg cttaggtttc ataatcctgg accgatccaa cgcaccaa ataccaaaac 240
tcaatagggt tcttc 255

<210> 749
<211> 255
<212> DNA
<213> Ratte

<400> 749
cgaaaagcca tctttgcatt gttcccgggt cgtgctccgc gctcactgca gccaccttcg 60
ccgcccaccg tctctcccaa cggggactcc ggcagttttc tcgccagagt cctcgaaact 120
cgactaattc cttacgcgta gcaccagacc accggcgtgc cccaccatgt cagacgcggc 180
agtggacacc agctccgaga tcaccaccaa ggacttgaag gagaagaagg aagttgtgga 240
ggaggcagag aatgg 255

<210> 750
<211> 255
<212> DNA
<213> Ratte

<400> 750
aggaaacttt agccatggat gtgagtcacg gaggcttatt cctgaactga atatcacctt 60
ctgcaatcaa accagaacgg catgttttaa tgagaatgaa caccgttctc attctctcat 120
tcttttaacg ttacacagaa ttagagattg ctgtgaattt ttttttaatt tgaaatccgg 180
attaaagtga aagcagtggg agtgaagctt taaaaatatt acattactat gtcattgaca 240
tggcttttac actga 255

<210> 751
<211> 255
<212> DNA
<213> Ratte

<400> 751
 actccggttca cctcctcctc aagactgcc aaggaaggagg gtctttatta tacgaacagt 60
 tgggacataa ggcatacggg ctggctggga agctggcagc ctccggatcg attacaatgc 120
 agaacatcgg agctatgtca agctacctct tcatagtga atagtagtta ccttttggtga 180
 tcaaggcgtt aatgaacatt gaagatacga atgggctgtg gtatctgaac ggcgactatc 240
 tggtccttct ggtgt 255

<210> 752
 <211> 255
 <212> DNA
 <213> Ratte

<400> 752
 atgcagctct caggagaaga gggcccccta agattgtcag aggagccacg actgcaccca 60
 tcacaccaga atgcagcatc caggccagat gctttggggc tgggctctgc tcatacgata 120
 ttgactggag cagcattcca gctccaatca tggctgcgaa ggttgaccca attgtcatcc 180
 aagagcctgt catcatgaag ttcattgagg cagggtgatct ggctaatacc agggcagaca 240
 acgctgttaa accaa 255

<210> 753
 <211> 255
 <212> DNA
 <213> Ratte

<400> 753
 acaagatttg catcaattac tgccctgaacc tgctgttgat ttccctgcggt gatgttggag 60
 aggaaccaca ctgcttcctt attaatcttc tctttgggat gaggtaggag tgctgggaag 120
 tgtgagagag catcacagtt taaaactact tgtgtttgct catcagttcc agtgacaatg 180
 ttgcccacag ctgcagtgcc agcagtgctga actttaactt cctgggtggct gaggtagccg 240
 aaccaaata ggaac 255

<210> 754
 <211> 255
 <212> DNA
 <213> Ratte

<400> 754
 acaagctttt tttttttttt tttttttttt ttttgggtgca acctttgacc tttattcatg 60
 tcttgccctn ccaccnagta aagtcaaata caaggctact acccaaagca gaaaccccag 120
 tccctatcct anactcctcc tgtgagccna aaatatataa agtgctgggtg tgtaatatgg 180
 ggaaggccna acggactnag aacccccacc ctggacctca tcaggaggag gagcccttgc 240
 anaaaaaang gcagg 255

<210> 755
 <211> 255
 <212> DNA
 <213> Ratte

<400> 755
 tcactttgtg atgggtttag ggcgccctacc agagtcccca ccaagaagtc atatctctag 60
 tgctgaagac atcactcagc ttgggagtcg gaggacctgg ggcttcctgg gcctgagctt 120
 tgcctgtgaa gcaaaggagg ttctctgatc aaaagccaaag ttttccttcc cactgtctcc 180
 caagacacct ctgtcttcgt cttgctaccg ctgagagttg catggggcac ttgtctaaaa 240
 attcagcctc ccaga 255

<210> 756
 <211> 218
 <212> DNA
 <213> Ratte

<400> 756
 tgagacagtt cagtgttgtg ggtgggttgg tttccttagc gtttagaata gccatcattg 60
 tcttgcaata ggcagagcta tcacgtccag gaaaaatgag gggaaccaga ggcagcgtga 120
 gatccaaata cagcattcaa aggtaattgg tccagtgggt cctggggagg aggaagggga 180

tgatactcca gggttagcca tcttccttcg gaggtgtg

218

<210> 757
<211> 255
<212> DNA
<213> Ratte

<400> 757
tgcaccacgt cgggtgggtt ccattcagac agaggccagt tcagaacttc ccagatgacg 60
gtccccctca ggaagctgcc aaccaggacc ccaacaataa cctccaggga ggtttgacc 120
ctgaaatgga agacccaac cgctccccg taggccgtga agtgctggac cctgagcata 180
ccagccccctc gttcatgagc acagcatggc tagtcttcaa gactttcttc gcctctcttc 240
ttccggaagg ccac 255

<210> 758
<211> 255
<212> DNA
<213> Ratte

<400> 758
tctctttttt tttttttttt tttttttttt ttttaaaaag aaattttttgc ctttattaaa 60
atggcttttag gccttaaata tgccaatttt ggnaatcaca ttattgnttt aataanaaac 120
gactntacag aanggcanaa ntggaccaac anccttgtnn ttcntttann gngnnaacca 180
tacnggntgt aacnanacaa gcanggcna gnatnannta ncccagnatn ctatcttttt 240
taaaccacaag nnttn 255

<210> 759
<211> 255
<212> DNA
<213> Ratte

<400> 759
acccctgagt ctgagtctga cacagcaggn aaacgggcct ccctgttgga agcacacaga 60
anctgcaaat ggtggacagt gctggcaagt ccgtggctgg tgctgatctg ctgccggcta 120
ctgcgctcct tgaaccagac aggggtgcag ggagcccac cccctgactt tagtcactgg 180
cttaccagct ctgaccacaa agtccatctc tcaggcctgg ctgccctctc cctgggtgtg 240
atcttcattt tagtt 255

<210> 760
<211> 255
<212> DNA
<213> Ratte

<400> 760
cctgagtctg agtctgacac agcaggtaaa cgggcctccc tgttggaagc acacagaagc 60
tgcaaatggg ggacagtgtt ggcaagtcgg tggctgggtg tgatctgctg ccggctactg 120
cgctccttga accagacagg ggtgcaggga gcccatcgcc ctgactttag tcaactggctt 180
accagctctg accacaaagt ccatctctca ggcctggctg ccctctccct ggttggtgatc 240
ttcatttttag ttcag 255

<210> 761
<211> 255
<212> DNA
<213> Ratte

<400> 761
tctgatccat tccaggagtc tctccacact gtccagtttg actggagtag cagtggcctt 60
actaaccctt tagatgggtg gaatccagag ttgtatgaat taacaactgc taagctggag 120
acctccacct caagcctcag agtgactgac gcatttgcca agctcatgtc tacagtggaa 180
aagacgagca cgctgaccag gaaacaaaaa agggaggagc acctaaagca ggaggccgta 240
aaggatgatc tcagc 255

<210> 762

<211> 255
<212> DNA
<213> Ratte

<400> 762
atattgattca aacctgtcca accagcctga actgctaataa aaagaactca aacacacagg 60
ggggaactgt gtaggacctt taagtctctc tgccaatgtg gcaaaaaaaaa aaaaaaaaaa 120
aaaaggtgga gaggggtggg ggtggggtag aaaagacaaa acaactgaca tcagggtttgc 180
tttgcccttg cactgggggtg gccctacctc ctgctacagg tgcaataactg gaggacaggc 240
actctaggca tgggt 255

<210> 763
<211> 255
<212> DNA
<213> Ratte

<400> 763
accaccact cagccaaaag ctgtctcaag aagtagngaa cacacanctt gccntgggac 60
gccccaaaaac ngcnganaaa gagcnantan ttcnanntta tgcnaatccn ttgggtggaaa 120
gannctttgc aaantttccan cctttnaana annanggctt gnccnagaat tttcncncn 180
aatngggaat nggggttcn tnaccnngn ttggnncna atgntaaacc cnccttttnaa 240
ccngnccgaa ntctg 255

<210> 764
<211> 255
<212> DNA
<213> Ratte

<400> 764
acatctacaa aaggaaaagt gacggtatct acatcatnaa cctgaagagg acttgggaga 60
agctgttgtt agccgctcga gctattgttg ccattgagaa cctgctgat gtcagcgta 120
tctctccag gaacactggc cagcgagctg tgctgaagtt tgccgctgnc acaggagcca 180
ctccaattgc tggccgnttc acacctggga ccttactan ccagatccaa gcagccttca 240
gggagccccg gcttt 255

<210> 765
<211> 255
<212> DNA
<213> Ratte

<400> 765
acgcagacct tactgaggac cagctaccct cctgtgagag cctgaaggat actattgcca 60
gggcactgcc cttctggaat gaagaaattg tccccagat caaggagggg aaaaggggtct 120
tgattgtctg ccattggcaac agcctacggg gcattgtcaa gcactctggag ggtctgtcag 180
aagaggccat catggagctg aacctgccaa ctggcatccc catcgtctat gaactggaca 240
agaacttgaa gccca 255

<210> 766
<211> 255
<212> DNA
<213> Ratte

<400> 766
accnggaccc caaactgagg actgagatnn cnagaccag cttcttcagg gngtnggtnc 60
accgaaatc ctgaattctg gatnctnnct cctnttccc cactgaggaa anttaacgaga 120
cttaggacat ctcaaacggg gcatntcaag gggcccanga gctnacatcc ctgngacccg 180
gggatnttgg accctgactt tgtctaaaag cccaaccag acttcaagac ggttctngac 240
actgnaaaca ctcan 255

<210> 767
<211> 255
<212> DNA
<213> Ratte

<400> 767
tgtaaaggaa tcctggggag gctccccagg aaaatcacag gctcctccac acttgctgga 60
aacattggag agtgagctgg tagcttcctt ctctggacac tgttcaggcg gcttccttaa 120
gccatcagaa gtccttactc tgctcctctc gggctgaagg gcccgggggc agtgcttcag 180
tttcttccag gactttgatc tcagaggtgc tcttcatttc ccaggacaca gaagtattaa 240
gcaacttata actaa 255

<210> 768
<211> 255
<212> DNA
<213> Ratte

<400> 768
acaagctttt tttttttttt tttttttttt tttttgattc tgataggggag aanatggcca 60
aaaggtcncc antgccaggc atctgggcat aaaaatgggt atggacaaca agggcntagga 120
aacaatgcat anaaagttag aaattttaaag ngatgtttt ggggagggag gtgctggcga 180
aagggttac agatagcatg anaccnagn ggttttgatt ggtgtttctg gctggcactt 240
acagctctgg gacat 255

<210> 769
<211> 255
<212> DNA
<213> Ratte

<400> 769
acttatgaaa gctccaagag ccaacgaggt gacctccaaa gtattgtcac cttcgacctg 60
gccctagatc ctggccgctt gaggccccgg gccatcttca aggagacaaa gacacaggcg 120
ctgactaaaag ttagaaccct cggctctgagc agtcactgtg aacctgtgac gctgtctctc 180
ccggcctgtg tggaggactc agtgactcct atcactttgc gtctcaactt ctctcttggt 240
ggagtgcaca tccct 255

<210> 770
<211> 255
<212> DNA
<213> Ratte

<400> 770
acagatgagg agagctcaca tttagccttc tcagcagctt cccgaaccct ctgaagtgcc 60
atgttgtctt tgggtcaaac aacccctgtc tccctcttga actccttgac aatgtgccgt 120
aacaaagctt ggtcaaaggc ttcacctcct aagaaagtgt cccatttggg ggatttcacc 180
tcaaacactc ctttctgaat ttccaggata gaaatgtcaa aggttcctcc acctaaatca 240
tatacagcaa tgact 255

<210> 771
<211> 255
<212> DNA
<213> Ratte

<400> 771
acatctcctt tgtgtgcgca caaagagtca ccaaaatgaa acttcgctaa ctccagcagt 60
tcgttatggc aaacacctcc agcagcagcc agcacgattc ttgggtccctt ataattgtgtg 120
gttatgtagt ccactaagtc cttacggctt atagatttga tgttctcggg tgggtcccaga 180
attgtccgtc cgagcgcggg gttttgatag gctgtggcgt gcagataatc aaagacaact 240
tcttgcaagt tgggtc 255

<210> 772
<211> 255
<212> DNA
<213> Ratte

<400> 772
ttncgagcgg ccgnccggnn tnggcacctg aacgtgagag aagctgtgct tgggggctac 60
gacactaagg aagtcacctt ttatcctcaa gacaccctg accaaccctt cacagcactg 120
gcctatgtgg ccaccccaca gaaccctggc tacctggggc ctgctcccga agaggtcatt 180

gccacacaga tccttgcttg ccgaggctta ctctggccac aaccttgaat acttggnagc 240
gnttggcagg acttc 255

<210> 773
<211> 255
<212> DNA
<213> Ratte

<400> 773
acaaaaagct gagtgtgttc tcaggcaggg atcctccggg accagggtgag gaagaatttg 60
aatcttggat gtttcatact tccaagtaa tgaaaacatg gcagggtgtca gatgtagaga 120
aaagaaggcg gttgatggag agccttagag gccagcatt cgaaattatt cgagtcctca 180
agataaaciaa cccgttcatt accgttgag aatgcctgaa gacgcttgag acaatatttg 240
ggattattga taatc 255

<210> 774
<211> 255
<212> DNA
<213> Ratte

<400> 774
acaagctttt tttttttttt tttttttttt ttttttgctt ggcaaaatgt tttattccga 60
ataattttat tgggagtcac ataaatctca ctctagggtt tacacaaaaa cggaagttac 120
atagctgcaa atcccagctc tcccttgaaa atacattcaa gttcataaca aatgttaatt 180
gcacttaaaa attaaatagg atgtgaagaa aggatgcaat ataaagacac tcaagacctt 240
tccatttaat ctgcc 255

<210> 775
<211> 255
<212> DNA
<213> Ratte

<400> 775
acaccccccc agatggaggg tggggctggg cgggtggtagt tggagccttc atttctattg 60
gcttctccta tgcatttccc aaatccatca ctgnccttctt taaagagatt gaaattatat 120
tcagtgcac gaccagtga gtgtcatgga tatcgtccat catgctggct gtcattgatg 180
ccggagggtcc tatcagcagt atcttggtga ataaatagg cagccgtcca gtaattgattg 240
ctgggtggctg cctgt 255

<210> 776
<211> 255
<212> DNA
<213> Ratte

<400> 776
acctggagca cgtgttccgg cagcagccc aagagctgtt tggaatccat gtggctgacg 60
tcacctacca acccatgagg aacaaggact tccaggaagt gacactggag aggggaaggcc 120
agggtgctgtt ggcctttgct gtggcctatg gcttccgcaa catccagaac ctctgtgcaga 180
agttaaaacg aggcgcgtgt ccctaccatt acgtggaagt aatggcctgc ccttcagggt 240
gcttgaatgg agggg 255

<210> 777
<211> 255
<212> DNA
<213> Ratte

<400> 777
accttaatac caaatataat tttattgaaa acacacaaaag caaagataat tgttataaaa 60
agttgatcct taggatgatt ttaagggtcaa ttaattcagt gaaagacctt taaatcaact 120
ttagcagcta tccatggtaa ttctttgttg tttcttgatt aaaataattt gcttctgat 180
aacagtggat cgtcattggg agtgggtttgt atccccagtg agactctgtc caaaagaact 240
gatctattta caaat 255

<210> 778

<211> 255
<212> DNA
<213> Ratte

<400> 778
ttcggctttc gagcggccgc ccgggcaggt accttcaatg aaatgcaagt tactaagcgt 60
gaacggcttt gctttttcac gtgattaaga cctacttca aactgtagaa gcttttcaag 120
agccatatta ctctcctgat acttcattaa tctccatcat gtatgccaa cctgacacat 180
gtgacagaga agacaatgtg gcttgctcct ttttgaatct aaagataatg catgttttac 240
agtacctcgg ccgcg 255

<210> 779
<211> 255
<212> DNA
<213> Ratte

<400> 779
actgcaaaga gccagagggg ccctagaaga anctngggnt gtgccaggta agaaccctac 60
agaatatcat gccacgcagn tttattttga aaataagcta aactgttatt ggaaaagctt 120
tgaagggaatg agacagatgt tgctcacaga acagctttct aagcaacaaa gtaatgatgt 180
cagtaaaacc agaaaacgtc ccagagaataa aaaatggcag gtgctggaaa aacgatggcc 240
agagactctc aggac 255

<210> 780
<211> 255
<212> DNA
<213> Ratte

<400> 780
tacatccagg acctctgagt ccagaaccac ngccaatggg tgtcagggtc atctgtggac 60
attgcaagaa tacgtttctg tggacagaat tcacagaccg aaccttggca cgatgccctc 120
actgcagaaa agtgtcatct attgggcgca gatatcctag gaagagatgc atttgctgct 180
tcttacttgg gttactcttg gcagtcactg ccactggcct tgcttttggc gcatggaanc 240
ctgcnacgca atatg 255

<210> 781
<211> 255
<212> DNA
<213> Ratte

<400> 781
acaagctttt tttttttttt tttttttttt ttttgtctt ataatgaag ctttatggaa 60
aaaggctgtg tgaactagat ttcataagga ccaggtttgt aacaatgtta acagttccat 120
agagaaccac aaatgcctaa catagcatct gaggtgtat ttgagaagt tattccagct 180
tccacgaact ccagaggaaa cattaacaca atatgaaaag acgaaagaaa gaaagaaaga 240
aagaaagaaa gaaag 255

<210> 782
<211> 255
<212> DNA
<213> Ratte

<400> 782
accaactatc gagctggcta ccaaggtgcc catgacctgt tgctctatga caacgcccac 60
atcggtatcc gccatcccaa catcatctgt gactgttgca agaaacatgg gcttcgtgac 120
atgcgttggg agtgcctgtg ctgctttgac tatgatctct gcacgcagt ctacatgcac 180
aacaacacatg accttaccac tgcttcgag cgctatgaga catctcactc tcgcccgggt 240
acgctgagtc cccga 255

<210> 783
<211> 121
<212> DNA
<213> Ratte

<400> 783
acattaagac aacaggtgat catttgcct gtcactgcc catgtcacct tggcagtccc 60
tctaaggaag gaaggaaagg aagatagaag aaagggagga agggagggaa gtcagtcttg 120
t 121

<210> 784
<211> 255
<212> DNA
<213> Ratte

<400> 784
acacgtgact gcctgcttag tgggtgcacgc acctgcactc ggggtttccct gntttgcagg 60
ggttttcttag aaccagtata atgaattcaa gcacaggcag aattgttttt gacaatgagt 120
cgctgttccc cagatctagt gtgttctgaa aatggagaac ctgcctgtnt tggctcctca 180
acagaagctg cccacaggag gcaggacagt gcttaggtca ttcattgatga ctgatttcgt 240
gatcagacta cnngt 255

<210> 785
<211> 255
<212> DNA
<213> Ratte

<400> 785
acctctctca gtaacaggat gaaggaggca aagtagaaca catagaccat tcccaccaac 60
cagtgcagaa acattgtggn ccctggggct gactgaaagc tcagctctcg atctttcaga 120
gtagcatcaa acatttccag agaacaaata tccagccacc agccacagat gagaggggaa 180
actccaattt ctaccacaac taacagagag accttaacca caatatagca gacgcccagc 240
aagcgacgag accta 255

<210> 786
<211> 255
<212> DNA
<213> Ratte

<400> 786
tacatctttt tttttttttc ccccatagtt tgtcatctga ttttgttagt cctgacttgt 60
tagtcctttt cagcgggtaa tctggggaggc agtggtatcc ctccctctgc taggtatgta 120
atgaaccctt gcactacca tgactccct tgaaggctgg ttcttccagc tatgcttgat 180
gttgctctgc acaggctcctg ggacctatgg gatggggatg acatcatact cagtagggca 240
agtttttata gtagt 255

<210> 787
<211> 255
<212> DNA
<213> Ratte

<400> 787
cctacagngc cctgcacgaa gtagggagccc cacactagat atccccctctt gtaaagcacg 60
agcccaactc actggctatc tgattctcac cctccttttt agtccgagga acagtgtgac 120
cccttggaac gagatttaga aagaggggcat tcatgcacag aattctgggg cctggcacag 180
ctccctgccc aggagctcag cttgctgctg agggctgggt gtgaccatgt ctgcctccgg 240
ctgctggggag aagct 255

<210> 788
<211> 157
<212> DNA
<213> Ratte

<400> 788
gatcataaag cctggagatg aggggggtcat tcacttggct aaactccaga cagagaaacc 60
gtcctccagg cttaggact cgatgggctt cctggagagc ccggtcaatg tgcgtgacat 120
tccggatccc aaaggcaatg gtgtaaacgt caaatct 157

<210> 789

<211> 255
<212> DNA
<213> Ratte

<400> 789
ccccgggcagg tactaagaat ggactggggg cctcaggcct gctaggcaag cactctgtta 60
ttgagctgta tcttcagtct gtaaatgcag tcagttaagg tggttgcatg tgggagcctc 120
taatccaata cggctgatgc tctgacaaaag gagtaaatgt gtatctatct ccttgagata 180
cccacacagg gaagatgccg tgtggacttg aaggcagaga tcagaacaat gtatctacaa 240
gccaaaggaat gccaa 255

<210> 790
<211> 127
<212> DNA
<213> Ratte

<400> 790
gngcttcaag tggccttgga gtgcttgoga gtgtttggag ctttgcttca gcctgtttaca 60
ccaaacttag ctgataagtt gctgtcaaga ctgggagtct ctaccacaga gagaagcctt 120
ggagagc 127

<210> 791
<211> 255
<212> DNA
<213> Ratte

<400> 791
accctttcag atcaccagcc tcaagaagca gcacagtttg agaggaaaga tgaacccaaa 60
gctgaacaaa tggaaaaggc tgaagaagag agtcgggtcag aaaacagtct ccagccaag 120
atccccagca gaggggacga aacgggtgct gcctcccagc aacctctgac acagcttcct 180
ccagacacag cctctcctct cctcatcctg tcacctnctc tttctactcc taagtctctg 240
ctcacgggca gntga 255

<210> 792
<211> 255
<212> DNA
<213> Ratte

<400> 792
cttagcagtg ggtagctcac tgttatcggt ttccgggtca tccttctgaa acacgatgat 60
gtcaccatcc atcagctcat cgagggtctt atcaagagac acatcatagt cctgaattct 120
ctctgttaaa ttccggcttaa cttcctcata gaggataagg ctagtatcct ggataaatcc 180
tgctctgtca cacataaccg ggagcaagtc acgtatttta caggatatgg gtgtgtagat 240
gtgtccacag taatt 255

<210> 793
<211> 255
<212> DNA
<213> Ratte

<400> 793
cacaagtgga tccacaggaa ttccaaaggg agtcatgata tcacacagca acatcattgc 60
ctctataacg gggatggcga gaaggattcc aagactggga gaggaagatg tatacattgg 120
atatttgccc ctggcacatg ttctagaatt aagcgctgag cttgtgtgtc tttctcatgg 180
atgccggatt ggctactctt caccacagac attagcagat cagtcttcaa aaataaagaa 240
aggaagcaaa ggaga 255

<210> 794
<211> 255
<212> DNA
<213> Ratte

<400> 794
gcggccgagg tacttggcca ggcgctcaga tcggcagggg gcaccagtct tgatctgccc 60

agtgcagagc cccaccacca ggtcggcaat gaaagtgtcc tcagtctccc cagatcgatg 120
 ggacaccatg acaccccagc cattggactg ggccagctta cagcctgca gagactcggg 180
 cacagagcca atctggttca ctttgagcag gaggcagttg caggactttt cgcccgagc 240
 cttggcgatc cgctt 255

<210> 795
 <211> 255
 <212> DNA
 <213> Ratte

<400> 795
 acctgcggnt gngcagagca nctaaggcca cggngtttga gaatgcngct gtttgngatg 60
 aaattgctng ncttgaggaa aaattcctta aagcaaagga ngaaagaaga tacttgctga 120
 agaagctnct ccagatccat gctctaactg aaggggaacc acaggctgcc gctccttccc 180
 acagctccag tttgcccctg gcttatgggtg ncaccagctc tgtgggaacc atccaggag 240
 ccgggcccag nactg 255

<210> 796
 <211> 255
 <212> DNA
 <213> Ratte

<400> 796
 ataaaaatgt aagatatgca aactaaagtt cctttaaata cggtgacagg tttggctcta 60
 atacttgctt cttggatatc gcagctgact gccatgttct ttgatgacta gtgataagca 120
 ccattgagag ctgatcctac ctaggagaag ggtggatctc ttcttctcca catccttacc 180
 tcttcttagc atcccaaatg cagggcatag agcaggagag aagcacttct catgccaccg 240
 gtggctgtag gcacc 255

<210> 797
 <211> 255
 <212> DNA
 <213> Ratte

<400> 797
 ctgggttgcc acctcacgct gottctgccc accaaagctg catttttgca agaagtggag 60
 tggagaagac atgagctggn gaagagcaaa ccctacatgc agatgtggac actggcctct 120
 caaagagtgg ngtgtgtaga tgccctgccc agctagagct gggcagaggt gacagggagc 180
 ctgacctctg aggcttcact ccagcttttt ggttggcacc cgggtccgtg caatgataat 240
 gggcaccaga gccag 255

<210> 798
 <211> 255
 <212> DNA
 <213> Ratte

<400> 798
 accagggcac cagcgtgggc aggatgaagc acatgagcag gaggccgggc ttgtaatacc 60
 tcctctggaa catcaccagc ttctcagctt tcaggtcaga catgtccagc tttccgacct 120
 tctctttgac agccgggtgt ttgcccacaa gcagccaacc cacgtgagag aagaaaaagc 180
 cacggcggga gttgtgaggg tcggcagtggt gtctctgaga acttgtggtg ggcgcggtga 240
 tcccgggccc attcg 255

<210> 799
 <211> 255
 <212> DNA
 <213> Ratte

<400> 799
 ctgattccag gattcccaag aggcattttt tggccatctc agaagccagg gtcacccacc 60
 tttggtctca gggcatcaat ttctctgag tgctgactcg gaggtaaaagt gtaaacacac 120
 ccaagaccaa ggctgcaagg actgtcctct catccatcta tgcgtctgtc aagtgcatta 180
 gtcggacaac tggggctaag ggcagggaca gatgttgact gcttaagcag gaatagccca 240
 agcttgtaag aaaaa 255

<210> 800
<211> 255
<212> DNA
<213> Ratte

<400> 800
acatccctct tttctgttaa gtaagggttg tcaagtgttc ttggatggag aggggggaaaa 60
aagccctttt cattgcaacc tgaatgaatg aagcaacaag agtaagtttc tttcaatcgc 120
taatatgtca gtgacgttac tgtccagaca tgtgttaaca ttaacacgag taatagatgg 180
tcttacaat tctcgaaaaa tgtaaatcat ccaatttcaa aacgttacag aatagtctat 240
tggattttgc aactg 255

<210> 801
<211> 255
<212> DNA
<213> Ratte

<400> 801
actttccgcc tagggcttgn caaatcaaca agnccctcac caccctgncc actagcgctc 60
accctccac aggattagac cagtgccagn tctgnagcca gtgggtggaca caatcnccag 120
gccccanagg gtttctttct tcaccaggg ccaagataac tgtctntccc anacggagac 180
aggnnccctn atgaancnc nccancnncn anaaccgtct tancgnncn gtaccnaggn 240
cnggcctna angga 255

<210> 802
<211> 255
<212> DNA
<213> Ratte

<400> 802
accctggaga tggacctgtt cgggcagcaa cagcttgttt tggatttccc aaatctttcc 60
tcagtgtgtc tcatgaattt cccctcaaca aagtaaaaag tctcctcaat ggaacatttt 120
ctgctgaaat gctatcctna gagcctaaag acngcacttc anttnaagaa agtaatgggtg 180
agcttgagaa agagattgtc gagcaagcgg atnaggacag cattgcagac cgnccanaga 240
gcaaccgcaa aacng 255

<210> 803
<211> 255
<212> DNA
<213> Ratte

<400> 803
ncttcttcan ataacagagg gnatcctgtg cacactgcaa tgntagcact gcctccataa 60
ancatcantt aagaaaggcc caanagtang atgctgtttc ttttaaaata atttanaata 120
tattaactnt cctaaggcag attttgtgtg aggcggtgnt gaatagggtan ctgntnccgn 180
tgccaaagaa cggcgcttgn aaggnnctgn ctgntctgna canttgangc gnggggtaaa 240
tcccntnagg cacnc 255

<210> 804
<211> 114
<212> DNA
<213> Ratte

<400> 804
ggagtctggc tgttttggga gccggtgtgg cctcgggatt tttgtatttc tatttccgag 60
atcctggaaa ggagatcacc tggaaacact ttgtgcagta ttacctggcc cgag 114

<210> 805
<211> 255
<212> DNA
<213> Ratte

<400> 805

ntatntgttt	ntangatttc	nngagatttn	tgngaggatt	tacttgctga	cttgtatttn	60
tttttcnntg	atncnnnntg	gagaagaatt	ntatcangtc	tttgngaatt	ccttaccaca	120
ttgggaatat	tgtctcangc	tctttggaatg	ngtgttggt	tntnannant	nttgnetngn	180
nnnnangatt	ttagngatnc	gttgccctta	ncgagatngg	nttncntggg	tcttannttg	240
naccggaatt	ancca					255

<210> 806
 <211> 255
 <212> DNA
 <213> Ratte

<400> 806						
acnnnantgt	gngttinctg	ctttgnntcn	aaactgnnac	tcatagaagg	gncnctggnc	60
anacnatatn	acgaatggac	gccttcaaaa	atgtccccac	acagnccang	gtggcctacc	120
ggnaactggg	catntgtg	gatttgtatc	ctacaggttt	gggtttctct	ggagacccca	180
ctgggctgga	aacaggcgtc	tagaaaacga	tctgtctggg	cagctatgga	tgaagtgacc	240
ttagagctgg	gcacc					255

<210> 807
 <211> 255
 <212> DNA
 <213> Ratte

<400> 807						
gcaagcctct	tgttcagaca	gttgaatgtg	gctcccagga	ggcccccaat	gacccccatc	60
acgacgaaga	aacccaaatc	catagctgtc	cagagatgac	attttttatc	agagtcagag	120
cacttaaat	caccaaagt	cagcagtcca	ggcagctgga	aggcacccca	acttncaaac	180
tggatcccag	agcgggaaga	gttgagggtg	aagggtggcag	acatggaaca	gaagagcact	240
ttccacgtga	gtccc					255

<210> 808
 <211> 255
 <212> DNA
 <213> Ratte

<400> 808						
accaggtccc	tngggagttg	gctgggtcagc	ctgtgcactt	gaagcgtgac	ttcttctctg	60
ccaatgcttn	tcgggcacaa	tcagagcact	ttatcaacct	tcgagaggtc	agtaaccgca	120
tnccgctgcc	gccgggggag	tatatagtgg	tgccctccac	cttcgagccc	aacaaagagg	180
gtgactttct	gctgcgcttc	ttttcagaga	agaaggctgg	gacccaggaa	ctagatgacc	240
agatncaggc	caacc					255

<210> 809
 <211> 255
 <212> DNA
 <213> Ratte

<400> 809						
agctgagagt	agctttcagc	cttccactca	cagagctccc	tgagatagag	cccaggctct	60
ggagcatctg	ctgccacaca	taagacacac	ccagctctct	ctcacagatc	ctatcctgtg	120
ggtgttgaga	gcagaggagc	agctacaaga	atcagtattg	tgggtcattc	cagtgtttat	180
tgtaaaatgc	aagtgagtgc	catttaaccc	catgattcta	atgtctgctg	aacgaccaga	240
cagggcata	cccag					255

<210> 810
 <211> 255
 <212> DNA
 <213> Ratte

<400> 810						
ttagcntttt	cgcgcccgag	gnacgcccac	tgntgggggg	gcctntgaag	gggaagggtt	60
ngggcngaca	tcacaggnc	cttcnngggg	cccactggc	cagctgnaga	gagcacaggc	120
tactacgtca	ggctgtgtga	ggttttntant	tgctgccttn	ccttangnnn	ataaganctg	180
gacnanaggn	ncncnnnagn	nngntaaaga	aactggntna	nnncnctcga	accaangctn	240

aaattgngcn tntga

255

<210> 811
<211> 255
<212> DNA
<213> Ratte

<400> 811
atccagtgcc catggatgcg ggttttttggg tttgttcagg ctgtgagaag ttacacgctg 60
gtcagctgac ttttcttttc tgagagaatc acctctcaaa tgctttcctg tgctccctga 120
gggcctnctg gctggntgca ggtttctggg ttactgggtg tctgggctgg ctgggtgtcct 180
gttatcactt gatagaaaga atagaaaatg tttctactct taccctgcta gcgttgagta 240
gtgttaaata ctata 255

<210> 812
<211> 255
<212> DNA
<213> Ratte

<400> 812
acaagctttt ttttctttt tttttttttt ttttttttac cttaaataatg taacttttat 60
tatgaacatg aagcatgtat gtttattagc actgactttt cctaaggnc acaacctcaa 120
ccaccatatt gncctatct ccgncctctg natgtgaca caatcacatg atgaatcagg 180
acggctgtaa gagctgnatc tgataacttc agngnaaaca acaatgngtt atatttggat 240
ttttattaaa tcaag 255

<210> 813
<211> 175
<212> DNA
<213> Ratte

<400> 813
gattggggcg gccagcctg tggggtcggg acacgagtct cacgtgtttc tgtagtttgt 60
aaacagtcac gcagacgggt tctgggtttt ctcacagggt gtaagggtcca ggctgtccat 120
tcaggtggag agggataaa gagaagatgt ggtcacttct gtgtgctaag gacgt 175

<210> 814
<211> 255
<212> DNA
<213> Ratte

<400> 814
ttagctgtgg tcgcggccga ggtacttaat agatgtttnc aaagctgggt ccagttagtg 60
ttatgtcttg gatcttgag atagactaga tctcaaaagc ttgccccttt gctgnagcag 120
gaataatggt nggntctatc tactggacan cngtgactta tggagcagtg acngngatgc 180
aggttgtagg ccataaagaa nggctggang ttatggagcc gagctgacct tttattttctt 240
ttgattggac ttcct 255

<210> 815
<211> 255
<212> DNA
<213> Ratte

<400> 815
atggagaagt ttgcctccta ctgcctcact gaaccaggaa gtgggagtga tgctgcatct 60
ctcctgacct cagctaagcg acaaggagat cattacatcc tcaacggctc caaggccttc 120
atcagtgggg gaggtgagtc agacgtctat gtgggtcatgt gcagaactgg tggatcaggc 180
cccaaaggta tctcctgcat agttgttgag aaaggaacct ctggcctcag ctttggcaag 240
aaggagaaga aggtg 255

<210> 816
<211> 255
<212> DNA
<213> Ratte

<400> 816
 acttcttcaa ataacagagg ggatcctgtg cacactgcaa tgttagcact gcctccataa 60
 agcatcaatt aagaaaggcc caagagtagg atgctgtttc ttttaaaata atttaaaata 120
 tattaacttt cctaaggcag attttgtgtg aggcgtgttg aataggtagc tgctaccgct 180
 gccaaagaac ggtgcttggg aggggctgtc tgttctgggc agttggagtt ggaggggtaaa 240
 tcccgtaggg tcaag 255

<210> 817
 <211> 255
 <212> DNA
 <213> Ratte

<400> 817
 acttgagtta tttgggtttg ttcacctgtt tccagagatt tttggtcttt tgggcagaag 60
 cccattgacc agactgtggg ccatcttagt ctgcatggag aggtggcagc cggagtgggt 120
 gtggccctgg ctaccaagcc cctgacagcc cgttaccagg aggatggagg ttttgacttt 180
 cttcactcaa aaccagtgcg gttgacacag tggctgctgg ttcactgtcc catgaaactg 240
 cttctggtgt ggtgc 255

<210> 818
 <211> 255
 <212> DNA
 <213> Ratte

<400> 818
 actcggcttc cttgcttttag ggatggctca cccacctcct ctgttccgaa actctcaggg 60
 gagctgctct cctgaagcac gagctccaca ccgcttggtg ggagaggagc ctccgggtcc 120
 tctgagagct tctcctcatc ctctcatga atgggagatg atggagaccg caggggtgctg 180
 tctggagact tgctctgtgt cttgcccttc tgtattccat tttctatgat tcgatcgagt 240
 ccagcaaggg gacaa 255

<210> 819
 <211> 255
 <212> DNA
 <213> Ratte

<400> 819
 acattctatg gaggtagacc cagcagcaac agggagggtca gttctccttc cagaacctat 60
 aaaaccccgag tgctatcgcc aagcaagtga acaccgaggc tgtgaaaaga aacanactat 120
 gttacaagcc ataccttaat tatttccagac nataaaaaaa aatgaacaga aacagaaaaat 180
 caaactttta tctcatgntc tttttcccta gaaaattaaa ctaagaataa aaggcatttg 240
 taaaggcaat angnt 255

<210> 820
 <211> 255
 <212> DNA
 <213> Ratte

<400> 820
 actttgaata cagcgatgcc cacaaagtgc aaaatacaaa gataactgca ttccattgca 60
 gcactgttcc aacacccctc tgagtcaaat atgggcatga cagttgttta gatgcacgaa 120
 actaccttga aaaatgctac cagaaaactat gtcgggtgtg ataacgagtg ttaaactctg 180
 ctaaaaagag cctgtcacat ttgccacagc ataaaaatca ccttgggtcaa ggacaggcac 240
 atgagtgagg cctcg 255

<210> 821
 <211> 255
 <212> DNA
 <213> Ratte

<400> 821
 cgccgggccc gagngtacct ctcaacccct gacagtcagt ctctgcgctg tgacctcatt 60
 cgatacatct gtggggtaag tccacccctc taacgaagtg ctgagttctg atatcttgcc 120

ccgatggggcc atcattgggt ggctcctgac aacatgcacg tccaatgttg ctgcctccaa 180
 tgccaagctg gctttgtttt atgactgggt gttcttcagc ccagacaagg atagcattat 240
 gaacatagag ccagc 255

<210> 822
 <211> 255
 <212> DNA
 <213> Ratte

<400> 822
 nnnnnnnntc cgggcttanc cgttgggtccg ccggcccgag gtacaccgag accgctggaa 60
 gcctctggag gtgttacttg gtgtggccac aagctcataa gctggagaaa cccacctctg 120
 gagatgtcag gtagggaagct gaactgttct ggcttcagct ggattcgaaa gtaagtctct 180
 atagattgnt tctgtgagag actttctcct gcagtaggac gaccacggtt ggggctccag 240
 gaccagaatg ccccc 255

<210> 823
 <211> 255
 <212> DNA
 <213> Ratte

<400> 823
 acacttctta cangggcact tctagatcta cnatgatgtc actttntctt ggaatattnc 60
 tgtcctgctg actagngct tctccannca tgaaccnna atntnang aagtgnngna 120
 nnatgnncnc gtnggagctc tgatgccent ntttcaagnc ttcttcacca tangnatnat 180
 actgttntcn gnnttcacta tctgacagaa cctcataagc agcaccana tctgttaatt 240
 gtctcctggg ctagg 255

<210> 824
 <211> 255
 <212> DNA
 <213> Ratte

<400> 824
 accaantctt gnttctgggc ttctcttgag tcaagattcc atttatgggc ctctgtcaga 60
 ctggctctctt ggtcgccaga ctccccaggg ctcagtctgc ttccaatac ctctttctc 120
 ttgggactgn gatctccaga acctgctaatt ctcagattct cctctggagt ttctccaggg 180
 ctcagcctcc atttctgagc ctcagctggt ctggaatcca ngtctctggc ctctgctggg 240
 ctctgcctcc agtct 255

<210> 825
 <211> 255
 <212> DNA
 <213> Ratte

<400> 825
 aggtacacca ttgagaacct aaggcacttt gtggactcac accaccagaa gcctgtcaat 60
 gctatcattg agcatgttcg agacggcaggt gtggctccgg ccctgctcct tccggatcac 120
 taccttgtaa ccgtcatgct gtcagggatt aagtgccaa cctttcgtcg agaaacagat 180
 ggtagtgaaa caccagagcc cttcgctgca gaagccaagt ttttcacgga gtctcgactg 240
 cttcagagag atggt 255

<210> 826
 <211> 255
 <212> DNA
 <213> Ratte

<400> 826
 accaagctct gnttctgggc ttctcttgag tcaagattcc atttatgggc ctctgtcaga 60
 ctggctctctt ggtcgccaga ctccccaggg ctcantctgc ttccaatac ctctttctc 120
 ttgggactgn gatctccaga acctgctaatt ctcagattct cctctggagn ttcttcaggg 180
 ctanactctc atttctgagc ctcanctggn ctggaatcaa ggnctctggg ctctgntng 240
 ctttggcctc cagtc 255

<210> 827
<211> 255
<212> DNA
<213> Ratte

<400> 827
acatgtaaat gactgtttct taaccgcaac ttaactaccg agcaaaaaat ttataaagct 60
gccaaaaacc aaaaagcaaa caaacaaaaa ccagctttca gcattacatt ctgggaaact 120
gaagtgttg atcttattca aagttttagt tctctttttt agttactaca atactgataa 180
acaggatata ctttatatgg atcagatagc caggatataa ttcttgtatg tgaatacttt 240
cattaaagca aaaga 255

<210> 828
<211> 255
<212> DNA
<213> Ratte

<400> 828
accagcgcaa agcaggcttc ctggtgttgg ccgtattatc tgacgggtgct ggtgaccaca 60
tcagacaaag actgctatac ccactgctgc agatcgtgtg caagggcctg gatgacccct 120
cacaggttgt tcgaaatgct gctctgtttg ccctgggcca gttttcagag aacttacagc 180
cccatacag cagctattcc gaggaggtaa tgcccctgct ccttacctac ctgaagtcaa 240
gtgcctatgg gaaac 255

<210> 829
<211> 255
<212> DNA
<213> Ratte

<400> 829
caagctttttt tttttttttt tttttttttt tttttttttt tttttttttt tggcctactt 60
nacnannccc tttnnnctc ncacctnanc cacnctgat cntctnact ncngatnctc 120
ncgtgccttg nncntgaggt cncctcanna gttntacgta atnctcctct nnttgcccn 180
gaaccacctn ttcagantac ttncnncnc atatcntcan ctattccctt gtnggtaant 240
gncctgctt ccta 255

<210> 830
<211> 255
<212> DNA
<213> Ratte

<400> 830
accatgtccc agagagcatc ttggttttgt tcatttttta tgagttaaat cagattttct 60
taatcaggaa ggctccttgg gaccttcata gtaagctgaa gctgctcttc tctcacctg 120
agtgttgatt tcagggtcaat ggccggcacc ctcccttccc tcttactgtt gaagtctctg 180
aacctgtggg tctcaagtgg agcggcacia agccaaggca ccagcgcatc tcagtagcag 240
gatatatcca tctta 255

<210> 831
<211> 255
<212> DNA
<213> Ratte

<400> 831
acaagctttt tttttttttt tttttttttt tttttttttt ttttttgagg ggacaacatg 60
tcaatttatt aaaaaaagng taanatttca atctgttaan atttgacttg taagcttttt 120
acacatttctg attttttttca anattttaaaa aacncaagga aaatgaaana attttttttc 180
canaccactt tatctgaatc actgaaatta aatgaagcct gnggcctana ctgaggggccc 240
taaatngttt tttga 255

<210> 832
<211> 255
<212> DNA
<213> Ratte

<400> 832
 acaacatgct gaacgcggac actaccgcc acctcatggt ctgctttctg tggatcatga 60
 aaaacgcgga tcagagcctc atcaggaagt ggatcgccga cctgccttcc atgcagctca 120
 acaggattct agacctgctg ttcatctgtg tctcctgctt tgaatacaag ggaaagcaga 180
 gttctgacaa agtcagtaac caggctcctgc agaagtcaag agatgtcaag gccaaagtgg 240
 aagaagccct gctcc 255

<210> 833
 <211> 255
 <212> DNA
 <213> Ratte

<400> 833
 accaaagntc tatatatacc tttgctaaag acacttaagc gtgactttcc ggggagaagc 60
 ccacactgat gcttgggtct atctcaccgc tgtcccgac acctctctat cgactgccat 120
 gcttttagatc taagtgaata atggcctttt agtaaattct caattctgnt tcacattgtc 180
 tgtccatgaa attcttttct ctgtcaaagc cganggtcct agtgcctccg tctgcgttgc 240
 ccacaaccgc gtgag 255

<210> 834
 <211> 255
 <212> DNA
 <213> Ratte

<400> 834
 accaagctct gtttctgggc ttctcttgag tcaagattcc atttatgggc ctctgtcaga 60
 ctggtcttct ggtagccaga ctcccaggg ctcagctctgc ttccaatac ctcttttctc 120
 ttgggactgt gatctccaga acctgcta atctcagattct cctctggagt ttctccaggg 180
 ctacagctcc atttctgagc ctacagctggc ctggaatcca ggtctctggc ctctgctggg 240
 ctctgcttca gtctc 255

<210> 835
 <211> 255
 <212> DNA
 <213> Ratte

<400> 835
 acctcgagga aaagttctcc tttagctggc anngctccct gcacnggtgt cttttgattt 60
 cattcttctt ttntaatnca cgctaaatga ccacctctat tgatagagac ctgccccttc 120
 agtctgttcc ttaggactgn ntaancatcc aggctatgcc tgccagagcc tacatgntca 180
 ggctgntctgg gaatgagcac ccagctctgg ccagtcctcc gaatcatgtg gcctgagggg 240
 aagcactggc ctcca 255

<210> 836
 <211> 255
 <212> DNA
 <213> Ratte

<400> 836
 nccaaanaag ccnngagnnn tngctcnnat ctgcttgatc tntgncctgn tncannnngt 60
 ggaccacgat gaacactcta attctgacag tgtccacact ggctatgagc ccactctnctt 120
 gctcgaggca ctnaatggac tacgggctgt ctcccagct atcccatcgg ctcccctcta 180
 tnaggaaatc acctactcag gcactctcag acggtctttn ccangccagn tgtcccttgc 240
 tggactcgat cgaat 255

<210> 837
 <211> 255
 <212> DNA
 <213> Ratte

<400> 837
 acatgcattt gnnacagacg acccaccatt atcatcagac tttcctacaa ctaccgcctg 60
 ccatggtgga agaaggtgag gagntcatg agccaagaaa cagaaatgga agcanaagag 120
 gaaactgggt ctgttcaagc taacctcacn cccagtccaa cngatgccag cctgagtcaa 180

<213> Ratte

<400> 843

```
acctttttaac ttaatgttcc agaccttcat tgggcctgga ggaaacatgc ctggatatct 60
gagaccagaa actgcacagg gaattttcct aaatttcaaa cgacttttgg aattcaacca 120
agggaaagttg ccttttgctg ctgcacagat tggaaaactcc tttagaaatg agatctcgcc 180
ccggtctgga ctgatccgag tcagggaatt cacaatggca gagatcgagc actttgtaga 240
tcccactgag aaaga 255
```

<210> 844

<211> 255

<212> DNA

<213> Ratte

<400> 844

```
acattgaaga gctggccagg ancggtcccc tgccnccct catcatgaac tgcaggacga 60
tcatggagga gatcatggag gtggttgggc tggaggagca ggggcagaat tttngcggc 120
ataccccaana aggccaggaa gcccagata gggatgaggt atacacaatc cccaactctc 180
tgaagcgaag tgagtcccca cagctgactc agatgctttg tcattgcatg aacagcctca 240
gcagattgcc atcaa 255
```

<210> 845

<211> 255

<212> DNA

<213> Ratte

<400> 845

```
accaccttct cccccgtgga gctgacctg ctattgttgg cacagacggt agcttctgag 60
gcttttgga gcaccgcttc cgggcccttg ccttggtgtt cactgtcctc agctaggccc 120
tctctggaag ctgtgggagc agcctctgag gcactagctc ctgatgaagt tccacggata 180
ggggccacca tatgggctgc ctttgccctca gctctattgn cgagtagcca actctgagtg 240
cctgctttcc catat 255
```

<210> 846

<211> 255

<212> DNA

<213> Ratte

<400> 846

```
tnacnttttn tttttttttt tgcacntaca cacggncanc tntattgntc antagnatca 60
acnccaaacc tanagntgaa atctcaccgt tatttccatg ctgtcnngaa cagngacaaa 120
gntaaccngn ngctncattc ngncancaga cctaannttt tacagctaac ttactttnac 180
agnnntngat naaatagntn cennntacaa tgnncaagg n ttttagtcnc taaggaattt 240
aaatggnatc ttgaa 255
```

<210> 847

<211> 255

<212> DNA

<213> Ratte

<400> 847

```
acaccacgag agactgctgc ttgtttogat tcttggtatt gtggtaaaacc tagtaggaat 60
atttggtttc aatcatggag gtcacggaca ttctcacggc tctggccatg gacacagtca 120
ttccctcttt aatggtgctc tagatcacag ccattggccat gaagaccatt gccatagtca 180
cggagccaaa catggagggt cacacagcca tgaccatgac catgctcatg gacatgggca 240
cttgcatccc cacga 255
```

<210> 848

<211> 255

<212> DNA

<213> Ratte

<400> 848

```
actnttttnaa cacgngcccc atccatatccc ngngncgaca gacaaagagg catngcttct 60
```

```

ggggcccagg ctggctgntg actctcangg gctgcatggg ctgacaaatg atagngaggg 120
gngtagtctc cccaagtcct tgatcctcat actgncgcct ncctaacgcc ccatcgtcaa 180
angcgagtgc gctggatgat accgtattca agatagaaca ggaaccaatgg aagatccagg 240
tgctacactc atcag 255

```

<210> 849
<211> 255
<212> DNA
<213> Ratte

```

<400> 849
acacgttgca tctcctagct tctcctgaa ccccgtttta cgttcgcggc ggggaaaaca 60
gcctgacgag tagactgcag ctccctgggag atggcggcgc tgtgccttac ggtgaacgcc 120
ggaaaccctc cactggaagc tctgctggca gtggagcatg tgaaaggga tgtcagcatt 180
tctgtggaag aagggaagga gaatcttctt cgggtttctg agagtgtggt gttcactgac 240
acaaattcaa tctg 255

```

<210> 850
<211> 255
<212> DNA
<213> Ratte

```

<400> 850
acaagctttt tttttttttt tttttttttt tttttttttt tccanatatt taatgaattt 60
ganaatcatg tanccatatt ccatgaaatg ngattacctg nggtgnaggc tgaagcccta 120
ctgaggcaaaa caaatgcata acaagataag taaaagcctt atgcanatgn atttctgttc 180
ttacctgcta caatgtagcc tngnatgtaa tacncagata aataagacag tctnttggat 240
ttttctaatt tatag 255

```

<210> 851
<211> 255
<212> DNA
<213> Ratte

```

<400> 851
tttcgatcgg cgcgccgggc aggacctgcg gctgngcana gcanntaang ccgcggtggt 60
tgagaatgct gctgtttgtg atgaaattgc tcgtcttgag gaaaaattcc ttaaagcaaa 120
ggaggaaaga agataacttg tgaagaagct cctccagatc catgctctaa ctgaagggga 180
accacaggct gccgctcctt cccacagctc cagtttgccc ctggcttatg gtgtcaccag 240
ctctgtggga accac 255

```

<210> 852
<211> 255
<212> DNA
<213> Ratte

```

<400> 852
acctttccca tgcctaccag tggaggcatt cagaccagaa aagcaagcca gcaagtaaca 60
ttcttaaggt tagagaaagc cagttgtgct gctgcatacc ctgagacaaa gagcatcctt 120
tgccagatag agagcctgag acaccaggcc actctccaca aactagatac atttaaaagt 180
tacttggtca accagggtgtg gtagtgcata ctttagttct agtgcttgga ctggcagctc 240
gagaccagca tgcac 255

```

<210> 853
<211> 255
<212> DNA
<213> Ratte

```

<400> 853
acctatgtag aaagggttaa acttcccttt gctgaagaga agaaggttat acagagacat 60
caatgcccaa gtccctcacct tcacaatcac atcctagaga acgataagtc agaacagaat 120
tgctctggcc agggatattt tatgttgaca aaatattgtt gcaatatttg aatctccaga 180
ttgggaatct ccaggctgaa attgtttgtg tcagaatttt tattttaatg tttcaagaat 240
gaggtagtct acatt 255

```

<210> 854
<211> 255
<212> DNA
<213> Ratte

<400> 854
acccttccag agctgcccta cagaaaggag atggtgagag ctgatctgat taataagaaa 60
gttggaaatca aagagactcc tgcaaactct gccaaactcc tgaccaggat gtgtctgaag 120
tcagaagtca taggtgatgg caatcagatt gaggttgaaa tccctccgac cagagccgat 180
gtcatccatg cgtgtgacat tgtggaggac gcagctattg cttatggta taacaacatt 240
cagatgactc tcccg 255

<210> 855
<211> 255
<212> DNA
<213> Ratte

<400> 855
acagacctaa ggccaagtaa aaggattgcc agcaaaaaag tttacagggt agaatacagga 60
aaagcaggct gcttctctcc caaagtcact cgtaaagaaa aggtccgaag atctctccgt 120
ctgaaattta gtctgaggaa gaacggagat tcaaattgat gttctgtcat caatagacat 180
gaaatgttg gtcgacgact agcgaatcag cagaatctaa aaaataggat tgagtctgta 240
aaaacgggtc tgctt 255

<210> 856
<211> 255
<212> DNA
<213> Ratte

<400> 856
actagacaaa gaagactgat atttactata aagaaaatcc caaccttctg tgctctgggc 60
cccaacagca aacaccgcca aggtcacatc aatagggagg ctcatgttct cattggatgc 120
cttccactct ctgaaatagc gctctgccct ctgcacgcag agctgatacc tgtgcacaca 180
tgctaggagt aagagctggc tcttgagcat cctctctgag acagagcctt catctgtcca 240
ggtctgctta ttaat 255

<210> 857
<211> 222
<212> DNA
<213> Ratte

<400> 857
actngntaca gttcagtgtt gtgggngggt ggttttccct agcgtttana atagccatca 60
ttgtcctgca ataggcagag ctatcacgtc caggaaaaat gaggggaacc agaggcagcg 120
ngagatccaa atacagnatt caaaggtaat tggncacgtg gtgcctggng aggaggaagg 180
ggatgatact ccagggntag ccattcttct tggggggtgt gt 222

<210> 858
<211> 255
<212> DNA
<213> Ratte

<400> 858
atggccaggc ttggctccag gtaggatgga tttcactgga agcgggagct tgctccctct 60
gggactctga atgggcttat agtcaagacc tttaatcatg ctaagagcca gctccagttt 120
gtggttacac aaaagctgtg gagtctgttc ctccagaatag tagtcacact ttacaagttc 180
tttcgaactt ctctccgttt cctcatcttt ctgttgtgga ggactagcct ggacactagc 240
atccagagat tccac 255

<210> 859
<211> 255
<212> DNA
<213> Ratte

<400> 859
acccttattg gatattctcc agaaggaata ccgctctatc acttcatggg tgatgctttt 60
cagcacagct ctcagtcggt ccctagggtt attaaggact cactgaaaca gattcttgag 120
gagagtgact ctaggcagat cttttacttc ttgtgcttga atctgctctt cacctttgtg 180
gagttgttct atggagtgtc caccaacagt ctgggcctga tctcagacgg attccacatg 240
ctctttgact gctcc 255

<210> 860
<211> 255
<212> DNA
<213> Ratte

<400> 860
actccataat ggatgtgagc cagagtgaag gcagcagtga gtgtgttaaag gagaacactc 60
tcaaggcggg aggttgttgt gcctacgac acagttgccg cgaccaagaa gagaggaagc 120
agcaaccagt tcaaagtgtg gcaccgtgtg ctgctcattt ggcaaacgat tagctgacat 180
gtgatattgg caaaagctgt tccgaccatg aagtagaata ttctagggtg catttctaaa 240
atatctgaag gtgac 255

<210> 861
<211> 255
<212> DNA
<213> Ratte

<400> 861
ngnaccngan acactgggag aagacacata tatggtaaag cnggcactcn gagctggcta 60
ctcnacaata ganctgaagc acaggcanc ccatatgggtg cccctatccg nggaacttna 120
ttaggancta gngcctnana anctgctncc acagattnca nanagggcct agctgaggnc 180
agngaaacac aaggcanggg ccctgaagcg gngctgncaa aagcctcnga agctaccgtn 240
tgnnccnanc atagc 255

<210> 862
<211> 153
<212> DNA
<213> Ratte

<400> 862
acctaccagg tgaaaccttt gtcctgggca atagcctgac gaggtccttg gagacacact 60
cagacctgat ggactctgcc ttgaagcctg ccaacctcgt cagcacgtcc cagacctcc 120
ggactcctgg ctatcgggcc ttgcttccct cct 153

<210> 863
<211> 134
<212> DNA
<213> Ratte

<400> 863
acaggccctg cccagtgttt gtccctgaac cccccacctc catagctgnt aatggctgaa 60
tgaggaaaagt tctggaatat gatgcttaaa taatgcatta tatcccagtg tgatgtgtgc 120
tttggctcgt tagt 134

<210> 864
<211> 255
<212> DNA
<213> Ratte

<400> 864
ttggcttcca tgttttggga aatttgagag aggaatggag ttcttactgg aatgtggcct 60
atcgctggct gacagatctg aaatggaatg tctccaatgg cagtgtctcc cttctgccct 120
cccttggagc aagccagtga gcagctgccc tgccggctgt ggggggtggc acctcaggca 180
gccatcttgg ccagctgctg ttctagcttt gaaatgcgct cgtcttgatt gcagattgtg 240
tcctttatgg atttg 255

<210> 865
<211> 209
<212> DNA
<213> Ratte

<400> 865
actcacagaa ctgggagata agcaggctgt ggnccatcctc tgggtgtgagc aggcctccta 60
ccactgccct aaagagtgtg cgggggaaga ggtagtggct ttcccactgg ggcttctcca 120
ggggtttctgc tcttncagc tgcacgaact tcatgagcgt ctcgagggcc agttccttga 180
cctggaagga gggatgggtc aggagttcc 209

<210> 866
<211> 46
<212> DNA
<213> Ratte

<400> 866
gcagggtggcg cgggtgcccgg ctgagcgcgg gaaaccgaga gagcgg 46

<210> 867
<211> 255
<212> DNA
<213> Ratte

<400> 867
accccatgag gattgatgag agcatacacc tccagctgcg ggagaaatat ggcgacaaga 60
tgctgcgcac gcagaaggcg gacccccagg tctatgagga acttttcagc tatgcctgcc 120
ccaagtctct gtcgcctgtg gtgcctaact acgacaacgt gcattcctaac taccacaaag 180
agcccttctc gcagcagctg aagggtgtttt ctgatgaagt gcagcagcag gccagctct 240
ccaccatccg cagct 255

<210> 868
<211> 255
<212> DNA
<213> Ratte

<400> 868
acgactgtgg ggtaggggca aaatgacacc aaattccagc cccctgcagt gtaatttctg 60
gggtttgaat tcacottaga agggacactg tattcaaact cacgtcaagg cactgtgtgg 120
acgagctgta gccagaactg tcaataactat cttctaactt acccctggcc agaagggttc 180
tacagacagt gattctaggg tgagaactgt cttagtgtgt gcagtatcct gcataaaaaga 240
acaaagctgt catca 255

<210> 869
<211> 255
<212> DNA
<213> Ratte

<400> 869
acagaggcag tggaaagatg tgggtggaacg ggctgtccaa gcgagggctg aagaagtgtg 60
tgtgcagatc tccaacgatt atgaagccaa acttgctatg ttatcttttag ctttggaaaa 120
tgcaaaagct gagattcaaa gaatgcatca agaaaaagac catttcgaag actccatgaa 180
gaaagcattc atgaggggag tgtgtgcatt aaatctggaa gccatgacca tatttcagaa 240
caaaaatgac gcagg 255

<210> 870
<211> 255
<212> DNA
<213> Ratte

<400> 870
acagaaagtg cgtgtggtaa tcggcataga caaagaagtc atcgccact tggttgtoca 60
gcaccgcagtg gctgttctgg aagtaattta acacactcat aatgggtgcag ttcttgttgt 120
atggagagag gggggccaca cagatgtcct gaagtgtcac gggttcattg ttataggacg 180

cagtgatact ttcaatggcg atctgtgaagt ccagaacctg gtgcagaatc tctttgttca 240
atggaggccc gaagg 255

<210> 871
<211> 255
<212> DNA
<213> Ratte

<400> 871
acaaggcctg cttcttcgga gtgtcatcgt cctgaggtaa ggaggagcca agctttttcca 60
tgtattcaat ttcataaggag tttctgtagt ccagctctgg ctggcaagaa tcttttctgg 120
gtctttgccc cctagggtca gtattctcca aggcaagggtg tgggtctggc tggccactga 180
gttgcttacc ctccgagggt gaattgaatt tggctctcatt tacaaagtta gatagggtctg 240
agggtgcgg gaaat 255

<210> 872
<211> 255
<212> DNA
<213> Ratte

<400> 872
accttgnntt gatcatttcc acagcacatt tctcctccag aaacgcgaaa aacacaagcg 60
tgtgggttct gcattttttaa ggataagaga gagaaagagg ttgggtatag taggacaggt 120
tgtcagaaga gatgctgcta tggtcacgag gggccggttt cacctgctat tgtcgacgcc 180
tccttcagtt ccactgcctt tatgtccctt cctctctctt gttttaactg ttacacatac 240
agtaatacct gaata 255

<210> 873
<211> 255
<212> DNA
<213> Ratte

<400> 873
acataaaaagg accccataca tcattgctggt aaaataggac attcagaatg cacacacttc 60
tgttttttct cttatgtgat aggtagattc ttaatgttaa gcatttttat tttgtgattt 120
actccatttg taacttaata gtcttggatt taaatttaca atttgccctg tttgggtattt 180
tgttttaatt tggaaaggat aattggaagt taactgaaat aatggaagt gaattttatac 240
tctgcatttt tatat 255

<210> 874
<211> 238
<212> DNA
<213> Ratte

<400> 874
actactaaga aatgggacaa gtcactgagg acttcagcgg ctgggggtccc catcccagat 60
aagtccaccc cccaccacca ccacacacca cacacacagg gatgctctgg gaagcccgtc 120
tcgtcaccaa ggacctacc tagaccata agaagggcag ttgccactgg agctgcctga 180
ggtaggacca ggaaacccca cttagtgtnc ctgcccgggc ggccgctcga aagccgaa 238

<210> 875
<211> 255
<212> DNA
<213> Ratte

<400> 875
tactcgcgca gtmatgtgtc ttctccttct acacactggg agtcatgtct ggagctgcag 60
aagaagtggc tacaggagca gaggtggyac atccgcyygc ggccatgtgt agagcagctt 120
tggagtcccc tagaaaatag catcatcnnc gagccttnat cctnctnngt tgggtggacc 180
cacttgatcc caagactctg gcctttaacc ctaagaagaa gaattatgag cggcttcaga 240
aagctctgga tagtg 255

<210> 876
<211> 255

<212> DNA
<213> Ratte

<400> 876
acacctaggg cagctcgagg caagcgatct ttaacaagat ctctccagc catccgtagc 60
ggctctgcac tggragtagt tctgatcgct cactctctgc cactcccca gcaacaagga 120
atcattctgg atctcggaca cctcctgtag cacttagtag ctctagaatg agctgtttta 180
gtcgtcctag catgtcacca actcctcttg accgatgtag atcacctgga atgctagaac 240
cccttggaag tgcta 255

<210> 877
<211> 254
<212> DNA
<213> Ratte

<400> 877
accaccatac ttctgggctc tctctgcttt gtccctttca atttctctc gaaccctttg 60
tctggcagca gctcttcagc cttctccctc ctgcgckoct cagcagcccg gcgtatctca 120
tcttcctgta gtttctgtcg tgcagctgac agctcttgcc cttgtctcct ccgtgtcttc 180
tctcgttcta aagcttctcg ctctctctt tcttcacgtt cccgtgtctt ctgcgccaca 240
agttccaama ttct 255

<210> 878
<211> 254
<212> DNA
<213> Ratte

<400> 878
taccaggatg taaacattat tggtttttga ttcacagtct tggaaggatg gcctgtcttt 60
aggctcagaa ctccagcmat gcgcnnnaac tccttcagyc cttctaagcc aggagtctca 120
gggctgtccg gaggcagctc tgtcaatgga ggctgcctct gcctgttaca cactgtctca 180
cgaattagtg aggtcttctc taccacctca gcttctcttc cagccagcac tgtccacacg 240
aggaccccaa aact 255

<210> 879
<211> 255
<212> DNA
<213> Ratte

<400> 879
acatatctct atattattat atatcaactt acatatatac atatattttt mgggggtggtg 60
ggaaatgggt gtggctacct ccacctgctt tcmcgtgtma camgcctgaa gggctgctta 120
gggcttgata cagggtcatt gtgagaagtg tgcaccatga ctcaggactc aacctggcat 180
gcagccaccc aggcccatcc cacacatgta tgtgacatgt agacagacac ctgccattgc 240
ctacacgcta cctg 255

<210> 880
<211> 255
<212> DNA
<213> Ratte

<400> 880
taagcacggc ccgctatcct ggcagctgct tcagcagtcg ctgcctccac cttacttgnc 60
accacggcgm cmcaccmcyse mycgcnncan nccccanngg ccacargygc tccaggcaca 120
gctgcaagtc ctctcctgag cccgtaagaa agggaccac agtaaaactga ccatgctgca 180
tggtggcccc aggcactctg gggctgatgg tcctagtata agataaggct gcctcagacg 240
tccttgccaa cccaa 255

<210> 881
<211> 254
<212> DNA
<213> Ratte

<400> 881
cacatgasgc catgagcacc tcaggggtcc tcttgggaatt cctcatctt cactgtgtcg 60
taaaaaamrc agawgarawt gcaannnnngc nccnccaccn ncnnnnnnaa aagagttgcc 120
cgcattggcgc tctctctctc cgaataggcc agaattgtcc ttaaggactt tctcaggtgc 180
tcttcattga agtctgggtgc tttgcctacc aaggatgcc gtgcatgtt tacctgcac 240
tttactcttg caaa 254

<210> 882
<211> 255
<212> DNA
<213> Ratte

<400> 882
accaggaccc tgcgtgcagtt tcttttgtca cgaattttac tataatttat gttaagatgg 60
gctatctctc cgggcccagkg gnnaaacaat gngagcgcgg cccctacgct tcttactgcc 120
atggaaggga aacctcagcc acagcaggac agcttaatgc atcttttaac accaactctt 180
tttcacatga aatacccggc tgaatcatcc aaatcagctt ctccatttaa tcttgcgtag 240
aaaccaaaga ctgtg 255

<210> 883
<211> 255
<212> DNA
<213> Ratte

<400> 883
tacacctagg gcagctcgag gcaagckatc ttttaacaaga tctcctccag ccatccgtag 60
cggctctgcat ctggaagtag ttctgatcgc tcacgttctg ccactcctcc agcaacaagg 120
aatcattctg gatctcggac acctcctgta gcacttagta gctctagaat gagctgtttt 180
agtcgtccta gcattgtcacc aactcctctt gaccgatgta gatcacctgg aatgctagaa 240
ccccttgga gtgct 255

<210> 884
<211> 255
<212> DNA
<213> Ratte

<400> 884
acctcttgcc ttatcagcct gccatggcca atcccacagg gaacssgagg gaaggaggat 60
gttggtcgas aaasmgaga gatasamaca gaagaggggg agtgaatgga cccagtgggc 120
tgtcttattt caaagtgggt gtgtatgatt cttatactac atctatatag agatattaag 180
gcoctctgag ttaaagaaac tsycctcacc ccgtgctgtt cactcatgtt tgtaaaaatt 240
gttccatgct aacat 255

<210> 885
<211> 220
<212> DNA
<213> Ratte

<400> 885
actgtccaca cacctggawg acgtgcggcg ccagaacatc gamaagaaaa ctgagaagat 60
cctgagagag ttctctmstt hcmatnanga ccagtatggt gtctccctct tcaacagcat 120
gcgccatgag attgagggca ccgngcctcc gcagcachnh tgctctggcg caaggtgccc 180
ctggatgaac gcacatctt ctccgggaac cttttccagt 220